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Christman, G.

1943-94

General Index

Catalogue

1943-1968

#1-1201

Journal

1965, 1974-1976 Calif: Alameda, Marin Cos.

1986-1994 Calif: Alameda Co., Berkeley

Christman, G.
1943-94

Catalogue

1943-1968 #1-1201

November 23, 1943 Ontario, San Bernardino Co., Calif.

1. ♂ Citellus beecheyi

426-190-52-24

Corn + seeds in right cheek, stomach empty
no skull

JUNE 18, 1945 State Gamefarm, Chino, San Bernardino Co., Calif.

2 ♀ Mustela

Skin measurements $16\frac{1}{2}" - 5\frac{1}{2}" - 13\frac{1}{8}"$ skull

January 24, 1944 Foothills N. Upland, San Bernardino Co., Calif.

3. ♂ Corynorhinus rafinesquii

$3\frac{1}{2}" - 1\frac{1}{2}" - 1\frac{1}{4}" - (N.) 1\frac{1}{4}"$; one wing spread $4\frac{1}{2}"$

Bill Rugg + Richard Reeder

February 5, 1944 Ontario, San Bernardino Co., Calif.

4. ♂ T.E. Passer domesticus

T.L. - $5\frac{3}{4}"$

AUGUST 29, 1945 5 mi. S. Ontario, San Bernardino Co., Calif.

5. ♀ Passer domesticus domesticus

Lanius ludovicianus

T.L. - $9\frac{1}{4}"$; stomach empty

September 25, 1944 Ontario, San Bernardino Co., Calif.

6. ♂ T.N.E. Geothlypis trichas

T.L. - 130 mm.; very fat; found dead (fractured skull) on
football field under wires at Chaffey by Roland L. Christman

COLLECTION

November 25, 1945 Joshua Tree National Monument, Riverside Co., Calif.

7. ♂ Peromyscus

188-95-20

apx. 3500' feet; trapped under outcrop ledge.

skull

February 17, 1902 Iquala, Guerrero MEXICO

8. ♂ Aimophila acuminata

collected for Field-Columbian Museum, Chicago by Geo. F. Breninger
from Zumach

October 1887 Austria

9. ♀ Saxicola oē. oēnanthe

from Collection of Charles D. Klotz; from Zumach

April 16, 1891 "Jalapa"

10. ♀ Thraupis abbas (Lichtenstein) Abbot's Tanager

identified by K. Stager, Los Angeles County Museum
from Zumach

JUNE 16, 1906 Boruca

11. ♂ Cercomera tyrannina oreopepe id. by

"Explorations of C. F. Underwood in Costa Rica"

from Zumach

March 7, 1922 Australia

12. ♂ Poephila acuticauda

"Coll. of Henry K. Coale, Highland Park, ILL. No. 26404"

Bill + feet coral

[N.W. Australia]

13. ♂ Munia pictoralis (Gould)

cage bird coll. of H.K. Coale, from Zumach

November 18, 1944 Ontario, San Bernardino Co., Calif.

14. ♂ Sialia mexicana

T.L. - 148 mm. found dead at Chaffey.

~~October 24, 1945 Chino, San Bernardino Co., Calif.~~15. Colaptes16. Lophortyx17. Tyto18. Colaptes19. Colaptes20. Colaptes

21.

COLLECTION

October 21, 1945 Chino, San Bernardino Co., Calif.

21. ♀ Buteo borealis

coll. by Robert Hanna T.L. - 545 mm. feet - light yellow; claws - black;
iris - brown; gape - yellow; cere - greenish - yellow

November 17, 1945 State Game Farm; Chino, San Bernardino Co., Calif.

22. ♀ Eudromia elegans crested Tinamou

Died - gift from E. D. Platt, superintendent C.F. & G.

November 25, 1945 Pinto Basin (25 mi. SSW of twenty-nine Palms) Riverside Co., Calif.

23. ♀ Amphispiza bilineata

shot with .410; Bill - bluish. Alluvial fan; hot, dry desert. T.L. - 125 mm.
stomach - small seeds & insects.

December 2, 1945 2 mi. E. of Euclid Ave., on 19th Street; Upland, San Bernardino Co., Calif.

24. ♂ Dipodomys

271-158-43

D.O.R.; Pouches full of small green leaves & (weed) seeds.

September 16, 1945 State Game Farm, Chino, San Bernardino Co., Calif.

25. ♂ Aix sponsa
(T.N.E.)

Sick bird - from Fred Hien; T.L. - 17 7/8"

December 14, 1945 W. Desai St., Ontario, San Bernardino Co., Calif. Elev. 1000' Apt.

26. ♀ (E.N.E.) Lophortyx californica valisella

T.L. - 235 mm.; one wing 140 mm.; coll. by Glenn Goldsmith
seeds in stomach

December 14, 1945 W. Desai St., Ontario, San Bernardino Co., Cal. Elev. 1000' Apt.

27. ♂ Lophortyx californica valisella

T.L. - 240 mm. coll. by Glenn Goldsmith

COLLECTION

September 1945 "Imperial Valley" Calif. (Imperial Co.)

28. ♂ Phasianus colchicus

Gift of Misaldine

October 2, 1945 S. of Ontario, San Bernardino Co., Calif.

29. ♀ Corvus brachyrhynchos

coll. by Ed Schultz; pres. by R.H. Miller

October 13, 1945 Ontario, San Bernardino Co., Calif. elev. 1000' Apx. +

30. ♀ Aphelocoma californica

coll. by Gene Marshall, in Orange Grove T.L. - 265 m.m.

October 14, 1945 N.E. of Upland, San Bernardino Co., Calif. 8: A.M.

31. ♂ Sturnella neglecta

T.L. - 238 m.m. in dry sage brush; feet & legs - pale whitish-pink

JAN. 15, 1946 State Game Farm; Chino, San Bernardino Co., Calif.

32. ♂ Fulica americana

Killed in duck trap - E.D. PLATT, Superintendent, C.F. & G.

February 17, 1946 Mockingbird (or Holden) "Lake" Game refuge near
Arlington; Riverside Co., Calif.

33. ♂ T.E. Geococcyx californianus

From E.D. PLATT, Superintendent, C.F. & G. Game Farm, Chino.

This bird along with a ♀ (to G. Compton, Pa.) were caught
in a quail trap. (♀ eggs well developed) A Stomach
Analysis showed 2 whole white-crowned Sparrows in
each stomach (SAVED), Eye 8 m.m. Iris brown with a
yellow ring.

COLLECTION

NOV 1946 11 mi. N. of Milford; Mill Rift, Pike Co., Pa.

34. ? Cyanocitta cristata

trade with George Compton

March 28, 1948 Ontario, San Bernardino Co., Calif.

35. ♂ T.V.E. (16x8 m.m.) Spilopelia chinensis

iris-yellow (5 m.m.); T.L. 11 3/4" found dead in tennis courts,
internal bleeding + blood around eye believed to hit wire sides.
Stomach - much grain + seeds.

1946 Chino, San Bernardino Co., Calif.

36. ♂ Leptolophus arriocomis

Pet of Wm. Johnson

May 6, 1946 Ontario, San Bernardino Co., Calif. Elev. 1000' APX. +

37. ♀ E.(O.) S. En. Hylocichla guttata

T.L. - 162 m.m. found dead on Chaffey Hl. School campus.
Stomach - empty

June 10, 1946 State Game Farm, Chino, San Bernardino Co., Calif.

38. ♂ Nyroca americana

T.L. - 17 1/4" died; gift of E.D. Platt + Fred Hien C.F. + G.

1946 11 mi. N. of Milford; near Delaware River; Mill Rift, Pike Co., Pa.

39. ? Bubo virginianus

trade with G. Compton; strong SKUNK odor.

AUGUST 29, 1946 W. Slope of Lone Hill; E. of Upland, San Bernardino Co., Calif.

40. ♂ T.E. Citellus

18" - 7" - 2"

very fat; bait raisins; trapped in burrow entrance in go ard
patch. no. skull

COLLECTION

August 31, 1948 Big Pines; Los Angeles Co., Calif.; Elev. 6500', A.M. Early

41. ♀ E.S. Cyanocitta stelleri

T.L. - 11 $\frac{3}{8}$ " transition L.Z.; trapped (rat) with pan cake,
crop empty, but full of sand.

September 1, 1946 Big Pines; Los Angeles Co., Calif. Elev. 6500'

42. ♂ T. fairly En. Peromyscus

no meas.

trapped under rotten log; before 8:30 P.M., bait bacon, N. side of hill

43. Sandpiper collected find

October 6, 1946 Imperial Co., Calif.

44. ♂ T.V.S. Oberholseria chlorura

coll. by Eugene Cardiff. iris - brown

October 6, 1946 12 mi. (N.W.) of Westmoreland, Imperial Co., Calif.

45. ♀ E.V.S. Catoptrophorus semipalmatus intercedens

Coll. by Eugene Cardiff T.L. - 15 $\frac{3}{4}$ "

October 6, 1946 12 mi. N.W. of Westmoreland, Imperial Co., Calif.

46. ♀ E.S.E. Himantopus mexicanus

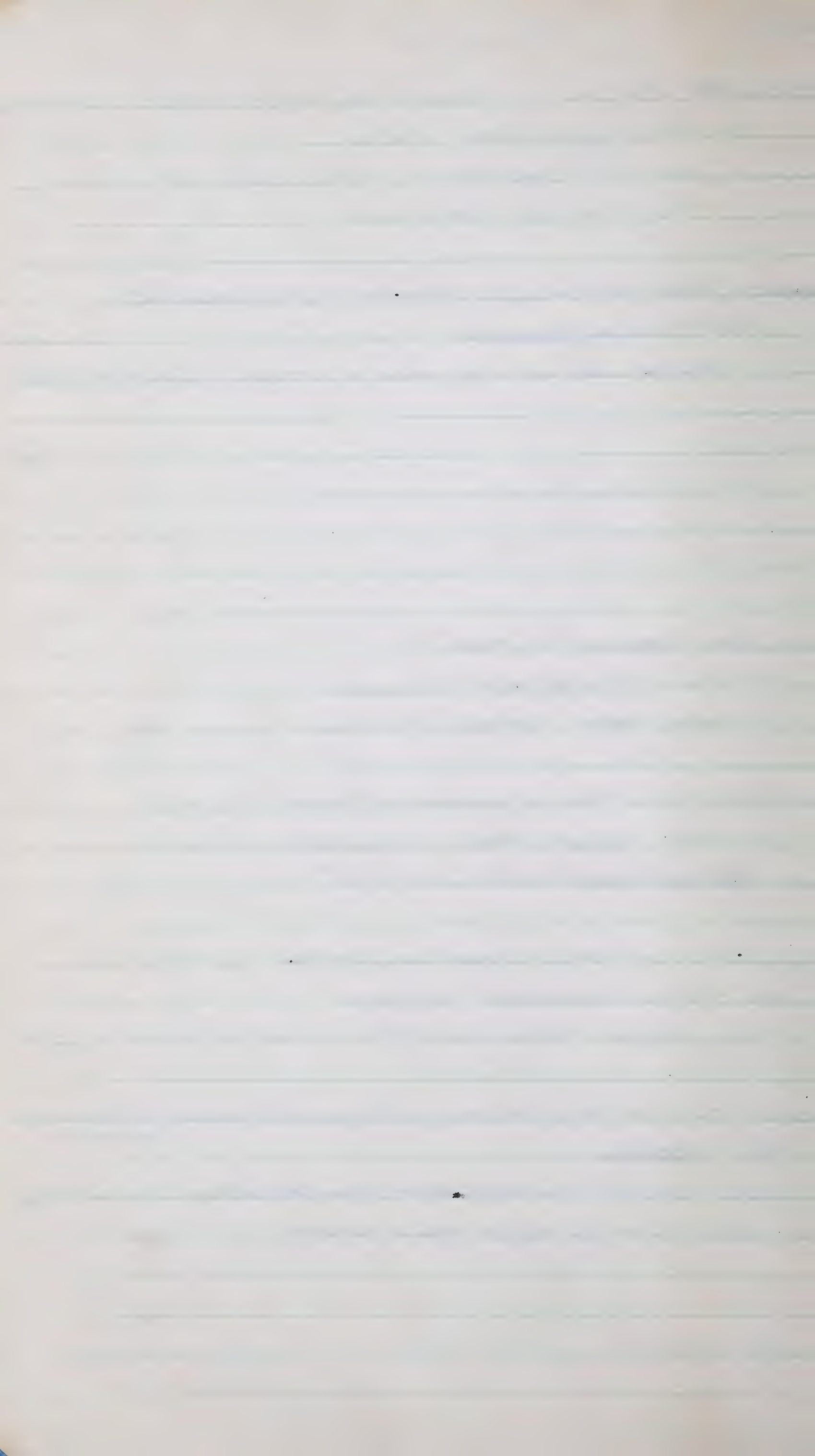
coll. by Eugene Cardiff T.L. - 14 $\frac{3}{8}$ " eye - red; feet - pinkish-gray; fat

November 8, 1946 $\frac{1}{2}$ mi. W. of Cucamonga Canyon, N. of Upland, San Bernardino
(Co., Calif.)

47. ♀ Neotoma

13 $\frac{7}{8}$ " - 6 $\frac{3}{4}$ " - 1 $\frac{1}{2}$ " no skull? near streambed; W. slope; 4 mammary
gland between hind legs; no external parasites.

48. Neotoma collected find



COLLECTION

November 30, 1946 2 mi. S. of Stodards Wells, 18 mi. N.E. of Victorville,
San Bernardino Co., Calif., near small bush, Joshua trees about

49. ♂ imm. Peromyscus

6 $\frac{3}{16}$ " - 3 $\frac{1}{2}$ " - $\frac{3}{4}$ " resin bait

December 28, 1946 Armstrong sub-nursery, Ontario, San Bernardino Co., Calif.

50. ♀ E.N.E. Zonotrichia

G.M.C. + G. Goldsmith T.L. - 154 m.m.; small seeds in stomach.

January 1, 1947 Armstrong sub-nursery (S.), Ontario, San Bernardino Co., Calif.

✓ 51. ♂ T.F.E. Accipiter cooperi

coll. by Earl Goldsmith; stomach - little hair + oat (shell) cereals.

testes deep yellow-orange; iris - yellow; no internal + external parasite

January 2, 1947 Ontario, San Bernardino Co., Calif.

52. ♂ T.N.E. Aphelocoma californica

coll. by G. Glenn Goldsmith; T.L. - 11"; stomach - some small

black seeds, grit, unidentified material + "one mouth full of
belly feathers (? downy)."

January 3, 1947 Ontario, San Bernardino Co., Calif.

53. ♂ Euphagus cyanocephalus

coll. by G. Goldsmith; iris - yellow

January 15, 1947 Hoard's Canyon; $\frac{1}{2}$ mi. W. Cucamonga Canyon, N. of Upland,

San Bernardino Co., Calif.

203-110-23

54. ♀ Peromyscus

(feet)
Trapped on west wall, East exposure, 50 yards from

floor of canyon near mouth, on steep slope, rocky,

(chamise)
grease-wood, club-moss, kobs dugell over side of hill; bait peanut butter

55. Peromyscus - leucogaster

COLLECTION

February 18, 1947 S. of Ontario, San Bernardino Co., Calif.

56. ♀ Falco sparverius phalacro

coll. by G. Goldsmith; pre. by R. H. Miller; iris - brown

March 28, 1947 Ontario, San Bernardino Co., Calif.

57. ♀ E. Well Dev. Aphelocoma californica

coll. by John Nemith; iris - brown; stomach - sand, 3 grams of "wheat", small pieces of egg shell. "Skull still fairly soft"

April 12, 1947 Ontario, San Bernardino Co., Calif.

E.W.D.
58. ♀ Otus asio

coll. by R. Salesberry (injured bird) T.L. - $8\frac{1}{4}$ ", iris - yellow

April 12, 1947 Hoard's Canyon; $\frac{1}{2}$ mi. W. of Cucamonga Canyon, N. of Upland, San Bernardino Co., Calif. Elv. approx 2300'

59. ♂ T.V. Large Neotoma

$12\frac{3}{4}$ " - $6\frac{1}{16}$ " - $17\frac{1}{16}$ "

trapped west wall of canyon, where stream crosses road (near Sycamore trees), brush on floor, fleas preserved, strong musky odor

April 19, 1947 Hoard's Canyon, $\frac{1}{2}$ mile W. of Cucamonga Canyon, N. of Upland, San Bernardino Co., Calif. Elv. approx $2(5)\frac{3}{4}00'$

60. ♂ T. Fairly Enl. Neotoma

"Caught in ~~rat~~ trap on super mixture 5' from rat hut which is on a ledge, caught two feet up on ledge, is very narrow part of canyon approx 25 yards S. of den. Deeply shaded, damp, cool cliffs about. A few odd lumps under skin about ventral hind legs - saved one, also are small "worm" from ventral part of neck embedded in apt in dermis - , musky odor."

April 21, 1947 Ontario, San Bernardino Co., Calif. Armstrong Sub-horseshoe - S.

61. ♂ T.E. Antrozous pallidus

108-40-13-25 (outside)

G.M.C. + G. Goldsmith, found in rafters of barn, another captured (in formalin) one Archivida found (preserved) was alive after I killed but one nite before - Carbon - tar wing spread - 14"

COLLECTION

AY 5, 1947 Hoards Canyon; $\frac{1}{2}$ mi. W. of Cucamonga Canyon, N. of Upland, San Bernardino Co., Calif. Elev. Appx. 2500'

62. ♂ T.N.E. Eutamias merriami 9"-4"-1 $\frac{3}{8}$ "

Shot with #10 (1 $\frac{1}{2}$ shot) 25' distance at 5:30 P.M. in cool shaded canyon (below dam 25 yd), was in tree over small stream of water (see notes) Stomach partly digested, finely chewed veget. matter of pale green color, full (now believed to possibly be elderberry leaves) no parasites found

August 29, 1947 on road near Cal-Aero, S. of Ontario, San Bernardino Co., Calif

63. ♂ Imm. T.N.E. LANIUS

T.L. 8"; near open grain fields, all middle tail feathers gone. Stomach - insects, Jerusalem Cricket, 3 "saw" bugs, & many extra parts, exoskeletons; numerous malophaga - not saved.

AUGUST 6, 1947 Hatchery creek, off McKenzie River, E. of EUGENE, LANE Co., Oregon; on pole trap over hatchery ponds.

64. ♀ E.N.E. Megasceryle alcyon

T.L. = 13 $\frac{3}{8}$, tarsus - m. $\frac{1}{2}$ ", stomach empty; iris - brown

DECEMBER 20, 1947 Crown Point, San Diego, San Diego Co., Calif

65. ♀ E. small Anthus spiroletta

T.L. - 155 m.m. Found dead on large open lawn, stomach empty, colon milky, no ectoparasites no signs of acc. or dis. death. a little fat.

DECEMBER 21, 1947 N.E. corner of W. half of Mission Bay, Crown Point, San Diego, San Diego Co., Calif.

66. ♂ T.E.

found sick on shore by A. Boyden, died later, excreta green, wound on left humerus. Stomach - full of vegetable material (seems to be fine sea grass). Iris - flaming red with very thin line of silver about pupil, feet above - dark green; below - light blue + pink (a little green also)

istman, G. M.

COLLECTION

ch 23, 1948 Vallecito STAGE STATION, San Diego Co., Calif.

✓ 67. ♀ Accipiter cooperii

Both ovaries developed. Caught in coyote trap by cowboys
stomach empty, internal organs in good condition.

rch 23, 1948 Vallecito Stage Station, San Diego Co., Calif.

68. ♂ Dipodomys

230-135-36 m.m.

just 19, 1948 Bluff Lake, San Bernardino (mountains) Co., Calif.

69. ♂ T.V.S. Oberholseria chlorura

Caught in mouse trap with peanut, a little fat

cember 25, 1948 near Santa Ana River, W. of Corona, Riverside Co., Calif.

✓ 70. ♀ Red-tailed Hawk

found by Chas. Bradford T.L. - 19"

iris - brown; feet, pale yellow; cere "deep, but pale" yellow

January 27, 1949 2 mi. N.; 1 3/4 E. Fallbrook, San Diego Co., Calif. Elev. 400'

along Santa Margarita River

Diego State
College Collection

71. ♂ T.S. Pipilo maculatus

wt. 42 gm.; T.L. = 7 1/2"; shot after sundown in low limbs of oak.

January 28

72. ♂ (ad.) Balanosphyra formicivora

wt. 70 gm. shot 7:30 A.M. in sycamore in river bed

↑

mallophaga saved (on throat)

Diego State
College Collection

73. ♂ T.N.E. Balanosphyra formicivora

wt. 77 gm. shot 7:30 A.M. in Sycamore, in river bed

January 27

74. ♀ Colaptes cafer

wt. 146 gm. shot from Sycamore

January 29

75. ♂ ad. Ixoreus naevius

shot in oak; on small limb 8:1 A.M.

Stuman, G. M.
1949

Collection

2 mi. N.; $1\frac{3}{4}$ E.; Fallbrook, San Diego Co., Calif. Elev. 400'

January 29 along Santa Margarita River.

76. ♀ ad. Tyto alba

S.E. coll.

Shot in top of oak on small limbs, 8: A.M.

77. ♀ Turdus migratorius

S.E. coll. 78. ♂ (?) Hylocichla guttata

April 16, 1948 Bluff Lake, San Bernardino (mountains) Co., Calif. Elev. 7700'

79. ♂ imm. Citellus lateralis

187-55-36

January 26. ~~80.~~ 2 mi N; $1\frac{3}{4}$ mi. E. Fallbrook; San Diego Co., Calif. see above

S.E. coll. 80. ? Aphelocoma californica

January 19 Imperial Beach, San Diego Co., Calif. sandy strand, salicornia, etc.

81. ♀ ad. Belding's Sparrow

S.E. coll.

Shot among sand dunes in short (6") grass + salicornia

S.E. coll. 82. ♀ imm. ? Caspian Tern

Shot in air, companion flew about, tongue deep cad. yellow; fat.

Near Sweetwater Lake; San Diego Co., Calif.

83. ♂ ad. T.S. Oxyechus vociferus

Small pools on open rolling hills; fat

April 3 Silver Strand; San Diego, San Diego Co., Calif.

84. ♀ ad. E. well d. Sparrow

bushes near beach

April 3 Imperial Beach; San Diego Co., Calif.

85. ♂ ad. Charadrius nivosus Seaside Plover

S.E. coll. 86. ♂ ? Charadrius nivosus

istman, G. M.

Collection

1949

April 3

Imperial Beach; San Diego Co., Calif.

s.c. coll. 87.

♂

Horned Lark

April 16, 1948 Bluff Lake, San Bernardino (mountains) Co., Calif. Elev. 7700'

88. ♀ Citellus lateralis

275-75-43

8. 26. 89. ? (imm.) Citellus lateralis

263-75-36

trapped under Ceanothus, day, bait - "Big Honk" candy Bar

April 6 (E) 4800 block, College Avenue, San Diego, San Diego Co., Calif.

90. ♀ Neotoma fuscata maculosa 389-198-35-32(N.)

4 Emb. (23 mm.) 2 in @ horn of uterus; N.-facing slope, rather thick brush, near water hut; 10' from bottom of canyon.

April 14

Vallecito Stage Station, San Diego Co., Calif.

91. ♂ Myotis subulatus melanrhynus 80-40-8-14(N.)

coll. by J. Lee; to P. Krutch (M.N.Z.); id. - A.C. Olson

April

Alvarado Canyon; San Diego, San Diego Co., Calif.

92. Carpodacus mexicanus

House Finch

93. Carpodacus mexicanus

s.c. coll.

Coll. by A.C. Olson

1949

collection

May 15 1 mi. W. + 1 mi. N. (SE. of hill) of Ocotillo, San Diego Co., Cal.
 rocky hillsides of igneous rock and small side canyons,
 which are above general desert floor. Vegetation
 is sparse. Weather — cool windy, rain in Mts. (Lag-
 unas); clouds scattered; very windy, few trapped
 on dry wind wash. Exposure to S.E.

(94. ad. ♀ Perognathus only skull saved
 T.L. - 189 T. - 102 H.F. - 23 E(N) - 9

95. ad. ♂ Perognathus
 T.L. 191 T. 107 H.F. 25 E(N) 9

96. ad. ♂ Perognathus
 no measurements specimen D.O.R.

97. ad. ♀ Peromyscus
 TL - 172 T. 87 HF 18 E(N) 25

Collected SPECIMENS & MAMMALOGY CLASS S.P.S.Q.

	Imm.	♀	ad. ♂
<u>Peromyscus eremicus</u>	5	3*	2
<u>Perognathus longimanus</u>		+	
" <u>formosus</u>		6	3

Dipodomys merriami

(no Emb.)

* one in lactation
 + 8 Emb.

RISTMAN
949-50

Collection

about 13

OCTOBER? LAKE MERCED, San Francisco Co., Calif.

98. ♂ T.N.E. *Columbus nivalis*

found dead on shore, with another too far gone, after chemical treatment of lake with Rotenone.

Nov 1, 1950 Ontario, San Bernardino Co., Calif.

99. ♀ E. (white) developed

morning Dove

found dead (blood about lower neck region)

COLLECTION

April 4 R6E, T1N, S-14; $1\frac{1}{2}$ mi. N. Joshua Tree, San Bernardino Co.,
[Calif.]

100. ad. ♂ Pipistrellus hesperus 71-28-6-11

Elev. approx. 3000'; shot with .410 (7½ shot) 6:15 P.M., at about
75' in air, testes $2\frac{1}{2}$ m.m.; round worms found in inguinal
region, which were saved.

8 April 2 mi. SW of Bloomington, San Bernardino Co., Calif.

101 ad. ♂ (T.V.E.) Spinus psaltria

T.L. - 95 mm.; shot in white sage with .22 shot in a 16 ga.

4 April R6E, T1N, S-14; $1\frac{1}{2}$ mi. N. Joshua Tree, San Bernardino
Co., Calif.; Elev. approx. 3000'; trapped in Rocks, N. wall.

102 ad. ♂ Peromyscus 175-88-19-20

Trap was Museum special got it in the back, still a little in
it, Stomach very full.

103 ♂ Dipodomys

230-138-38-12

Collected by R.H. Miller & E. Palmer

29 April $\frac{1}{2}$ mi., E. Turner Ave.; E. of Ontario, San Bernardino Co., Calif.

104 ♀ (a.s.) Dipodomys

258-151-42-15 (From 10)

Captured April 10, 1950, 11:00 P.M., no moon, caught on side of road,
see Digo. notes.

1950

105. imm. ♂ Euphagus cyanocephalus Brewers Blackbird

May 14 Ontario, San Bernardino Co., Calif. 11:30 AM. Wily car - was in center of road, we straddled it it made no attempt to escape, we couldn't see it in rear view mirror; later found on front bumper. breast + abd. bare of feathers - skin course. Very heavy parasitism in intestinal tract and some in coelom. - saved in formalin. - tape worms.

106. (imm?) ♂

9 AUGUST 1 mi. W.; 3 1/2 mi N. of Foothill Blvd. on Edwanda Ave.; just E. of Edwanda; San Bernardino Co., Calif. clear, warm, no wind. in area of almost pure stand of white sage was hopping in dirt side of dirt road. tail held at 45° from ground. Stomach - finely ground matter, very small gravel + 2 insect wings (diptera?)

107. (imm?) ♂

9 AUGUST 1 mi. W.; 3 1/2 mi N of Foothill Blvd. on Edwanda Ave.; just E. of Edwanda; San Bernardino Co., Calif. clear, warm, no wind; dusk. shot near dirt road (where it was foraging with another) in a mixed chaparral area; + tall scrub oaks. (ossification spots on dorsal basal region of skull.) Stomach - misc. seeds and a large black ant.

Note: 10 AUG. the age determination on these two sparrows is confusing. Both skulls were similar, the parietal region was steel-gray uniform in color + texture (it was rather soft when poked) while the supra-occipital region was translucent with flakes of white (the above mentioned ossification spots).

December 29, 1950

R6E, Tin, S-14, 1 1/2 mi. N. Joshua Tree, San Bernardino Co., Calif.

108. ♂ (imm?) Salpinctes obsoletus far109. ad ♀ Sialia currucoides

stman, G M.

COLLECTION

- Y 14, 1949 1 1/2 mi. W. Ocotillo, San Diego Co., Calif. Rocky slopes, Borrego
110. ♀ ^{18mm.} 6 emb. (Mt.)
coll. by Joshua A. Lee (*3) 209-113-24-10
- RIL 1950
111. ♂ ad (T.V.E)
194-108-23-11
- AUGUST 9, 1948 Bluff Lake, San Bernardino (mountains) Co., Calif. Elev. 7700'
112. ♂ Peromyscus 138-62-20
trapped in store, bait - candy
- AUGUST 13, 1948 Bluff Lake, San Bernardino (mountains) Co., Calif. Elev. 7700'
113. ♂ T.E. Myotis
83-38 (40 SKINNED) - 9-23
- AUGUST 20, 1948 Bluff Lake, San Bernardino (mountains) Co., Calif. Elev. 7700'
114. ♂ T.V.E. Myotis 84-30-6 mm.
- AUGUST 26, 1948 Bluff Lake, San Bernardino (mountains) Co., Calif. Elev. 7700'
115. ♂ Myotis 88-35-7
- AUGUST 13, 1948 Bluff Lake, San Bernardino (Mountains) Co., Calif. Elev. 7700'
116. ♀? Thomomys 275 (SKIN) - 70-38
Killed by dog in deep grass south side of meadow
- LY 1948 Bluff Lake, San Bernardino (Mountains) Co., Calif. Elev. 7700'
117. ? imm. Microtus 142-48-22
- April 20, 1945 Ontario, San Bernardino Co., Calif.
118. ♂ Thomomys 108-38-22 (V)
caught in barn.
- DEC. 29, 1950 R6E, T1N, S-14; 1 1/2 mi. N. Joshua Tree, San Bernardino Co., Calif.
119. ♂ ad. Spermophilus

H. Christman
1950

Collection

- Oct. 6 Strawberry Canyon, Alameda Co., Calif.
♀ 5 Emb. 20 mm
120. Peromyscus maniculatus gambeli 154-66-19-18^(N) wt. 27g
Collected by Dr. Seth B. Benson and S. O. Landry
Oct. 17 3 mi. NNE Vallejo, 120 ft., Solano Co., Calif., Coll. Ward C. Russell
121. ♂ Euphagus cyanocephalus 73.4 gm
122. ♀ Euphagus cyanocephalus 55 ~~13~~ gm

October 24, 1950

123. ♂ im. Agelaius phoeniceus 64.6 gm
124. ♀ im. Agelaius phoeniceus 46.8 gm
125. ♀ im. Agelaius phoeniceus 39.5 gm

November 19, 1950

White Gulch, Tomales Point, 8 mi. N.W. Inverness, Marin Co., Calif.

126. ♂ ad. Peromyscus 154-76-21-17 Testes 6x11 24.7 gm
127. ♀ Peromyscus maniculatus 186-92-22-17 45.3 gm
128. ♀ Reithrodontomys megalotis 129-67-11-13 11.7 gm

December 27, 1950

129. 4 mi. (approx) NNW Ediwanda, San Bernardino Co., Calif.
♂ ad. Nuttall's Woodpecker

November 29, 1950

Mouth of Strawberry Canyon, Berkeley, Alameda Co., Calif. 400' elev.

130. ♂ imm. Passerella iliaca
131. ♂ imm. Melospiza melodia
132. ♂ imm. Pipilo fuscus

Dec. 3, 1950

Mouth of Strawberry Canyon, Berkeley, Alameda Co., Calif. 400' elev.

133. ♂ ad. Zonotrichia coronata (T.S.)
134. ♂ ad. Zonotrichia coronata (skull completely oss.) T.S.

December 10, 1950 (all deviserated, no wts.)

Gray Lodge State Waterfowl Refuge, 3 mi. NW Pennington, Butte Co. Calif. elev. 65'

135. ♂ Mus musculus 149-70-18-12
136. ♂ Reithrodontomys megalotis 125-57-15-14
137. ♂ Mus musculus 162-75-17-12
138. ♀ Peromyscus 125-17-12

CatalogueDecember 29, 1950

REG, TIN, 5-14, 1 1/2 mi. N. Joshua Tree, San Bernardino Co., Calif.

139. ♂ ad. T.E. Dipodomys merriami 243-147-40-15
 140. ♂ T. small Dipodomys merriami 220-134-36-12
 141. ♂ T.E. Neotoma lepida skull damaged + 85-131-29-30

December 31, 1950~~141~~ Hoards Canyon, 1/2 mi. W. Cucamonga wash, N. Upland, San Bernardino Co., Calif.

142. ♂ T. Peromyscus truei 186-101-21-19

March 7, 1951

South Pasture, Hastings Nat. His. Reservation, Monterey Co., Calif.

143. ♀ Zenotrichia coronata; died while being banded; Wt. 29.9 gm.
 Took some chiggers from inside of ears; no parasites found in stomach^{to}-caeca
 lice collected from head-lobes, above auriculars.

~~144~~March 8, 1951

144. ♂ Peromyscus maniculatus wt. 23.5 gm. 193-101-21-18

145

146

147

148

March 9, 1951

149

150

151

152

153

March 7, 1951

Hastings Reservation

143.

1 vial

March 8, 1951 Ditch between bridge + museum

144. ♂ Peromyscus maniculatus

Chiggers from Ears, vent region

2 Vials

145 ♂ Peromyscus ~~maniculatus~~ ^{truei boylii} wt. 23.5 gm.

193 - 101 - 21 - 18(N)

Myobia
Chiggers on head

1 Vial

146. ♀ Peromyscus boylii

wt. 23.6 gm. 177-95-21-20(N)

Myobia from head; lice

2 Vials

147. ♂ Peromyscus boylii

(tail cut)
wt. 22.9 gm. 148-63-22-19(N)

Mites

1 Vial

148. ♂ Peromyscus maniculatus
imm.

wt. 14.9 gm. 137-58-18-16(N)

chiggers from ear; hair lice

2 Vials

March 9, 1951

149 ♂ imm Peromyscus boylii

wt. 10.5 gm. 144-75-21-18(N)

lice in ear; mite on body, mite on penis

3 vials

150 ♂ Peromyscus boylii

(tail cut)
wt. 21.6 gm. 145-59-20-19(N)

UB Flea, chiggers, mites

3 vials

151 ♀ Peromyscus boylii

wt. 25.0 gm. 182-97-21-19(N)

UB Myobia, mite, flea.

3 vials

152 ♂ Microtus californicus

wt. 46.8 gm. 163-50-22-15(N).

Fleas, hair lice, chiggers, Mites

4 Vials

153 ♀ Peromyscus californicus

wt. 38.4, 248-144-26-25(N)

1 hair ^{loose} mite; 2 small red mites from genital region, chiggers (2) from ear.

Roundworms in stomach

3 Vials

Hastings Reservation, Monterey Co., Calif.

March 9, 1951

154 ♀ Mus musculus wt. 16.1 gm. 153-76-17-13(N)
Upper Barn Myobia + mites 2 vials

155 ♂ Mus musculus wt. 14.3 gm. 148-73-17-12(N)
Upper Barn Myobia from Cecum 1 vial

March 10, 1951

156 ♀ Mus musculus 4 Emb (15mm) wt. 19.1 gm. 140-67-17-12(N)
Myobia (head & back), tick, mites 3 vials

157 ♀ Mus musculus 7 Emb. (11mm) wt. 18.5 gm 153-78-18-13(N)
Myobia, Mites, ear chigger 3 vials

March 11, 1951

158 ♂ imm. Thomomys bottae wt. 96.0 gm 186-63-29-7(N)
Nause 2 vials

159 ♀ 7 Emb. (30 mm) Thomomys bottae wt. 152.9 gm. 194-52-27-7(N)
Nause; roundworm () from caecum

160 ♀ Peromyscus boylii wt. 35.2 gm 196-108-21-19(N)
Bumhouse

161 ♂ Mus musculus wt. 17.0 gm. 167-84-17-12(N)
Upper Barn

March 12

162 ♂ imm. Peromyscus boylii wt. 15.1 gm. 156-83-21-18(N)
Ditch between bridges. Myobia

163 ♂ imm. Peromyscus boylii wt. 12.5 gm. 165-88-23-20(N)
Upper barn

164 ♀ imm. Thomomys bottae wt. 78.2 gm. 183-55-26-6(N)
Nause

165 ♀ Peromyscus californicus wt. 37.8 gm 223-124-25-22(N)
Upper Barn; roundworm in stomach, flea, mite, ear chigger

166 ♂ Mus musculus wt. 17.2 gm 158-81-18-12(N)
Upper barn, Myobia, ear chigger

167 ♀ Mus musculus wt. 14.0 gm (upper barn Myobia, louse)

March 9, 1951

Hastings Reservation

- 154 ♀ Mus musculus wt. 16.1 gm. 153-76-17-13(N).
 UB Myobia + mites 2 vials
- 155 ♂ Mus musculus wt. 14.3 gm. 148-73-17-12(N)
 UB Myobia on crown - 1 vial

March 10, 1951

- 156 ♀ Mus musculus 4 Emb (15mm) wt. 19.1 gm. 140-67-17-12(N)
Myobia (head + back), tick, mites 3 vials
- 157 ♀ Mus musculus 7 Emb. (11mm) wt. 18.5 gm 153-78-18-13(N)
Myobia; Mites; ear chigger 3 vials
- 158 ♂ Imm. Thomomys bottae wt. 96.9 gm 186-63-29-7(N)
 House, Mites, lice 2 vials
- 159 ♀ Thomomys bottae 7 Emb (30mm) wt. 152.9 gm. 194-52-27-7(N)
 House; Roundworms from caecum, Flea, lice 3 vials
- 160 ♀ Peromyscus boylii wt. 35.2 gm. 196-108-21-19(N)
 Bank house, Tick on genitalia, Mite, Myobia 3 vials
- 161 ♂ MUS wt. 17.0 gm. 167-84-17-12(N)
 Upper Barn

March 12

- 162 ♂ Imm. Peromyscus boylii wt. 15.1 gm. 156-83-21-18(N)
 Ditch between bridges, Myobia, Mites 2 vials
- 163 ♂ Imm. Peromyscus boylii wt. 12.5 gm. 165-88-23-20(N)
 Upper barn Mites, ear chiggers. 3 vials
- 164 ♀ Imm. Thomomys bottae wt. 78.2 gm. 183-55-26-6(N)
 House, Lice, Mite 2 vials
- 165 ♀ Peromyscus californicus wt. 37.8 gm. 223-124-25-22(N)
 Upper barn: roundworm in stomach; Flea, Mite, ear chigger

(

11

Notman, J. M. Hastings Reservation, Monterey Co., California

March 13, 1951

168. ♀ Mus musculus wt. 14.8 gm 140-79-16-12 (N)
169. ♂ Mus " wt. 11.5 gms. 143-72-18-12 (N)
170 ♀ Neotoma fuscipes wt. 199.2 gms. 385-192-38-29 (N)

March 14, 1951

- 171 ♂ Thomomys bottae wt. 147.8 gm. 196-58-26-8 (N)
172 ♂ imm. Peromyscus boylii wt. 12.2 gm 162-84-22-19 (N)

March 15, 1951

173

174

175

176

March 16, 1951

- 177 ♂ Peromyscus boylii wt. 17.1 gm. 169-95-21-19 (N)
178 ♀ Peromyscus boylii wt. 20.9 gms 178-97-22-19 (N)
179 ♀ imm. Thomomys bottae wt. 70.0 gm. 168-44-27-6 (N)

March 20, 1951

- 180 ad. ♂ Thomomys bottae wt. 156.6 gms. 224-62-28-8 (N)
181 ♂ imm. Thomomys bottae wt. 109.5 gms. 211-65-31-7 (N) SKIN*
182 ♀ Mus musculus wt. 19.7 gm. 135-55 (cur)-18-18 (N)
183 ♂ imm. Mus " wt. 10.5 gms. 141-69-18-
184 ♂ imm. Mus " wt. 16.6 gms. 137-70-16-12 (N)
185 ♂ imm. Mus " wt. 7.4 gms 115-57-15-12 (N)

March 21, 1951

- 186 ♂ Peromyscus maniculatus wt. 18.8 gm. 147-66-19-16
187 ♂ Mus musculus wt. 16 gms 143-77-18-12
188 ad ♀ Thomomys bottae wt. 133.5 gms. 202-52-24-7
189 ♀ Mus musculus wt. 19.2 gms 179-87-17-13
190 ♂ ad. Peromyscus maniculatus wt. 15.3 gms. 143-71-20-14
191 ♂ Mus musculus wt. 9.3 gms 128-68-17-12

March 22, 1951

- 192 ♂ Peromyscus maniculatus wt. 16.1 gms. 146-66-20-17*
193 imm ♂ Mus musculus wt. 6.6 gms. 115-59-16-11
194 imm ♂ Mus musculus wt. 7.7 gms. 116-60-17-11
195 ♀ imm " wt. 7.9 gm 129-63-16-11

* The skins prepared here are of the flat, file away type.

Christman

March 12

Hastings Reservation

- 166 ♂ Mus musculus Wt. 17.2 gm. 158-81-18-12(N)
upper barn, Myobia, ear louse 2 vials
- 167 ♀ Mus musculus Wt. 14.0 gm.
upper barn - Myobia, louse 2 vials

March 13

- 168 ♀ Mus musculus Wt. 14.8 gm. 140-79-16-12(N)
randworms from caecum, mites, lice, Myobia upper barn
- 169 ♂ Mus Wt. 11.5 gms. 143-72-18-12(N)

Upper barn

- 170 ♀ Neotoma Wt. 199.2 gm 385-192-38-29(N)
School; 1 flea.

Mar. 14

- 171 ♂ Thomomys bottae Wt. 147.8 gm. 196-58-26-8(N)

N. of house,

- 172 ♂ imm Peromyscus, Wt. 12.2 gm. 162-84-22-19(N)

Mar. 15 > ~~upper barn~~ Homestead House.

173. ♀ Citellus Wt. 15.5 gm. 420-161-52-25(N)

Upper barn

174. ♂ imm. Peromyscus maniculatus Wt. 20.4 gm 138-64-19-17(N)

house, snaptrap, small red mites, 1 louse, 4 Myobia, 1 ear chigger

175. ♀ Thomomys bottae 195-65-26-9

House, trichuris, tapeworms, flea, mites, lice

- 176 ♂ Zonotrichia coronata, 50-118212. Wt. 30. gms.

Killed by Hawk at upper barn

- 177 ♂ Peromyscus Wt. 17.1 gm. 169-95-21-19(N)

Old barn, Mites(5) from rump.

Mar. 16 >

Hastings Reservation, Monterey Co., Calif.

- 196 imm ♀ Mus musculus wt. 9.1 gms 131-64-17-11
 197 ad ♀ Peromyscus maniculatus wt 18.8 gm. 150-67-21-16

March 23, 1951

- 198 ad. ♂ Mus musculus wt. 16.5 gm. 150-73-16-12
 199 ad. ♀ Microtus californicus wt. 47.2 gm 167-52-21-15
 200 ♀ Peromyscus maniculatus wt. 15.5 gm. 142-64-18-16

March 24, 1951

- 201 ad ♀ Microtus californicus wt. 22.3 gm 158-43-20-13
 202 ♀ Citellus beecheyi wt. 575 ± gms 417-153-50-26
 203 ♀ Citellus beecheyi wt. 575 ± gms. 418-157-53-26
 204 ♀ Citellus beecheyi wt. 475 gms 408-141-49-25
 205 ad ♂ Peromyscus maniculatus wt. 15.2 gm no tail 19-15

March 25, 1951

- 206 ad. ♂ Citellus beecheyi wt. 575 ± gm 417-148-52-28
 207 imm. ♀ Zonotrichia coronata wt. 29.5 gms 471/8105
 208 ad. ♂ Mus musculus
 209 ad. ♀ Citellus beecheyi wt. 500 ± gms. 430-158-50-26
 210 imm ♂ Mus musculus wt. 5.6 gms 109-50-15-10
 211 imm ♂ Mus musculus wt. 5.8 gm 114-53-15-11
 212 ad. ♂ Peromyscus maniculatus wt. 13.4 gm 146-68-19-16 *

March 26, 1951

- 213 ♀ Peromyscus truei wt. 22.7 gm 197-91-21-22 *
 214 ♀ Peromyscus truei wt. 18.7 gm 184-92-22-23 *
 215 ♂ Peromyscus truei wt. 20.0 gm 192-97-22-23
 216 ad. ♀ Microtus californicus wt. 20.1 gm 166-45-20-15 *
 217 imm ♀ Peromyscus maniculatus wt. 15.7 gm 144-66-19-18 *
 218 ♂ Sceloporus occidentalis wt. 14.7 gm. 178-108 (tail-vent)
 219 ♂ Sceloporus occidentalis wt. 13.7 gm 75 (head-vent) tail off

Mar. 27, 1951

- 220 ad. ♂ Citellus beecheyi wt. 615 ± gm 442-171-55-25
 221 ♀ Mus musculus wt. 14.7 gm 143-76-17-12
 222 ad ♀ Microtus californicus wt. 38.6 gm 149-42-20-13
 223 ad ♂ Thomomys bottae wt. 152.1 gm. 212-71-30-7

Catalogue

Hastings Reservation, Monterey Co., Calif. clv.

March 27, 1951224 ♀ Thomomys bottae Wt. 112.8 gm 202-67-29-8 *March 28, 1951225 imm ♀ Peromyscus maniculatus Wt. 15.3 gm 141-60-19-16226 imm ♂ Peromyscus boylii Wt. 11.3 gm 148-83-21-17227 ad. ♂ Peromyscus maniculatus Wt. 16.6 gm 151-65-20-16228 ad. ♂ Peromyscus maniculatus Wt. 14.8 gm 135-59-19-16 *
4(10mm) Embs.229 ad ♀ Peromyscus maniculatus Wt. 20.0 gm. 158-70-18-17230. ad. ♂ Citellus beecheyi Wt. 775± gm. 458-165-55-28231. ♀ Citellus beecheyi Wt. 600 gm. 418-165-51-25March 29, 1951232. ♀ Mus musculus Wt. 12.8 gm 152-69-15-12233 ad ♀ Peromyscus maniculatus Wt. 23.6 gm 164-70-20-18234 ad. ♀ Citellus beecheyi Wt. 537.9 gm 417-163-58-26235 ♀ Citellus beecheyi Wt. 528.9 gm 442-182-54-25236 ♀ Mus musculus Wt. 12.7 gm 160-78-15-13March 30, 1951237 ♀ Peromyscus boylii Wt. 16.3 gm 180-92-21-20238 ♂ Mus musculus Wt. 10.0 gm 134-66-16-12239 ♂ Mus musculus Wt. 10.0 gms 132-62-17-11 (2)240 ♀ Perognathus californicus Wt. 19.1 gm 196-111-23-12241 ad. ♀ Thomomys bottae Wt. 102.7 gm 193-62-26-7March 31, 1951242 ad. ♂ Peromyscus californicus Wt. 40.5 gm. 240-127-26-25 *243 ad. ♂ Peromyscus truei Wt. 25.3 gm 198-108-22-25244 ad. ♂ Citellus beecheyi Wt. 806.2 gm 465-185-57-25245 ♀ Citellus beecheyi Wt. 700 gm 431-153-54-25246 imm ♂ Zonotrichia coronata Wt. 30.9 gm (50 118 117)April 1, 1951247 imm ♂ Peromyscus maniculatus Wt. 16.1 gm 154-74-19-17248 ad ♀ ⁵(10mm) Embs Peromyscus maniculatus Wt. 25.3 gm 168-73-19-19 *249 ad ♀ Thomomys bottae Wt. 115.6 gm 204-55-27-7 *
6 (13mm) Embs.

catalogueNastings Reservation, Monterey Co., Calif.April 2, 1951

- 250 ad. ♀ Peromyscus maniculatus wt. 20.7 gm 147-69-19-16
 251 ad ♀ Peromyscus maniculatus wt. 19.7 gm 150-65-19-16 *
 252 imm. ♂ Peromyscus maniculatus wt. 15.6 gm 150-67-19-16 *
 253 imm. ♂ Peromyscus maniculatus wt. 16.3 gm 155-67-19-17
 254 ♂ Citellus beecheyi wt. 829.7 gm 448-155-56-25

April 3, 1951

255. imm ♂ Zonotrichia coronata wt. 22.4 gm (50 (18100)
 256. ad. ♂ Peromyscus truei wt. 18.9 gm 178-90-22-24 *
 257. ♀ Thomomys bottae wt. 163.9 gm 214-58-22-8 *

April 4, 1951

258. ♀ Peromyscus boylii wt. 18.3 gm. 176-92-21-19 *
 259. ♂ Thomomys bottae wt. 150.2 gm 237-73-28-7 *

April 5, 1951

260. ♀ Peromyscus truei wt. 26.3 gm 191-98-23-23
 261. ♀ Peromyscus truei wt. 23.1 gm. 186-96-23-24
 262 imm ♂ Peromyscus truei wt. 13.9 gm 158-76-22-22
 263. imm ♂ Pipilo fuscus wt. 51.5 gm *
 264. ad ♀ Triturus torosus wt. 12.5 gm preserved
 265. imm ♂ Peromyscus maniculatus wt. 5.9 110-48-17-11
 266. ad ♂ Peromyscus boylii wt. 21.4 gm 193-100-21-18
 267 ♀ Peromyscus boylii wt. 18.2 gm 177-19-21-20
 268. ad ♂ Peromyscus maniculatus wt. 24.4 gm 200-104-21-18 *
 269. imm ♂ Peromyscus maniculatus wt. 13.8 gm 139-65-19-16

April 6, 1951

270. s-ad ♂ Peromyscus maniculatus wt. 15.1 gm 151-65-20-16
 271. s-ad ♂ Peromyscus maniculatus wt. 16.5 gm ⁵185-71-20-18
 272. imm ♂ Peromyscus maniculatus wt. 5.8 gm 108-46-18-10
 273 ad. ♂ Thomomys bottae wt. 173.0 gm. 229-59-30-9
 274 ♀ Citellus beecheyi wt. 649.5 gm 420-159-55-26

April 7, 1951

275. imm. ♀ Peromyscus maniculatus wt. 4.9 gm 108-50-18-12
 276 ad ♂ Peromyscus boylii wt. 18.1 gm 176-91-20-19

Nastings Reservation, Monterey Co., Calif.

April 7, 1951 (cont)

276. ad. ♀ Peromyscus maniculatus wt. 25.3 gm 194-104-22-19 ^{off?}
 278 ♂ Thomomys bottae wt. 148.3 gm 234-72-33-8
 279 ♂ Peromyscus boylii wt. 20.5 gm 167-89-21-18 ^{off?}
 280. ad ♀ 2 (25 mm) Emb. Peromyscus boylii wt. 27.2 gm 187-97-21-18

April 8, 1951

281. s-ad. ♂ Thomomys bottae wt. 102.5 gm. 192-50-33-7

April 9, 1951

- 282 ad ♂ Peromyscus maniculatus wt. 17.6 gm 143-63-18-17
 283 ad ♂ Peromyscus truei wt. 25.5 gm 203-107-22-24
 284 ad ♀ Peromyscus truei wt. 33.1 gm 204-106-20-24
 285 ad ♂ Peromyscus truei wt. 26.7 gm. 186-97-24-23
 286 ad ♂ Peromyscus truei wt. 24.8 gm 181-91-23-23
 287 ad ♂ Peromyscus truei wt. 23.4 gm. 181-83-22-22 ^{off}
 288 ♂ Thomomys bottae wt. 129.4 gm 212-60-28-7
 289 ♀ Peromyscus boylii wt. 19.0 gm 180-97-21-19
 290 ♂ Citellus beecheyi wt. 691.5 gm. 448-176-58-26

Apr. 13, 1951

- 291 ♀ Peromyscus boylii, wt. 17.5 gm. 172-89-22-22
 292. ♂ Sceloporus occidentalis wt. 10.5 gm T.L. 177, t-anus 108
 293 ad. ♂ Microtus californicus wt. 55.6 gm 179-54-22-15
 294. ad. ♀ Peromyscus truei wt. 26.3 gm 186-91-21-22
 295 ♂ Mus musculus wt. 10.9 gm 140-68-17-14

Apr. 14, 1951

- 296 juv. ♂ Peromyscus maniculatus wt. 10.5 gm 129-56-19-15
 297 imm ♂ Peromyscus maniculatus wt. 6.2 gm 108-43-17-11
 298 ad. ♂ Peromyscus boylii wt. 24.5 gm 178-89-22-18

Apr. 15, 1951

- 299 imm ♀ Peromyscus boylii wt. 11.8 gm 142-68-21-16
 300 ad ♀ Peromyscus maniculatus wt. 12.4 gm 143-62-19-17
 301 ♀ Neotoma fuscipes wt. 128.9 gm 325-155-37-29
 302 ad ♂ Neotoma fuscipes wt. 237.8 gm 395-188-38-30
 303. ad ♀ Citellus beecheyi wt. 527.4 gm 413-153-54-26

Nastings Reservation, Monterey Co., Calif.
Apr. 16, 1951

- 304 ♀ Microtus californicus wt. 42.6 gm 165-48-21-14
 305 ♂ Thomomys bottae wt. 152.8 gm 223-65-28-8

Apr. 17, 1951

- 306 ♀ Peromyscus maniculatus wt. 19.8 gm. 154-70-20-17
 307 imm. Sceloporus occidentalis released
 308 ad ♂ Sceloporus occidentalis wt. 14.5 gm
 309 s-ad ♀ Peromyscus maniculatus wt. 14.3 gm. 139-64-20-17
 310 ♀ Lophortyx californica \$39 430834

Apr. 18, 1951

- 311 imm ♂ Citellus beecheyi wt. 94.1 gm 228-84-41-20
 312 ad ♂ Peromyscus boylii wt. 19.4 gm. 183-97-22-19 5Kin
 313 s-ad ♂ Peromyscus maniculatus wt. 15.8 gm 146-65-20-18
 314 ♀ Microtus californicus wt. 67.4 gm 186-49-22-17
 315 ♀ Citellus beecheyi wt. 107.5 gm. 435-184-55-25
 316 ♂ Microtus californicus wt. 57.2 gm. 175-52-21-17

Apr. 19, 1951

- 317 imm ♀ Citellus beecheyi wt. 133.4 gm 268-106-44-21
 318 ♂ Microtus californicus wt. 39.7 gm 160-48-22-15
 319 ad ♂ Peromyscus boylii wt. 22.4 gm 164-81-21-19 *
 320 imm ♂ Citellus beecheyi wt. 129.0 gm. 269-108-48-21 *
 321 ad ♂ Perognathus californicus wt. 24.7 gm 192-104-24-13

Apr. 23, 1951

- 323 s-ad ♀ Peromyscus boylii wt. 21.3 gm. 179-104-20-18
 324 s-ad ♂ Peromyscus boylii wt. 18.1 gm 174-90-21-18
 325 ad ♂ Thomomys bottae wt. 174.1 gm. 232-67-32-7
 326 ad ♀ Citellus beecheyi wt. 737.5 gm 420-157-54-26

Apr. 24, 1951

- 327 ad ♀ Microtus californicus wt. 49.8 gm 172-51-20-14
 328 imm ♀ Microtus californicus wt. 23.8 gm 135-38-21-14
 329 ♀ Peromyscus truei wt. 21.5 gm 178-93-23-23
 330 s-ad ♂ Thomomys bottae wt. 119.0 gm 208-59-30-7 *
 331 ad ♀ Microtus californicus wt. 41.0 gm 152-45-21-14
 332 imm ♀ Thomomys bottae wt. 79.0 gm 185-52-25-6

Catalogue

Hastings Reservation, Monterey Co., Calif.Apr. 25, 1951

- 333 ♂ Peromyscus maniculatus wt. 15.7 gm 144-67-21-15
 334 ad. ♂ Microtus californicus wt. 42.5 gm 169-52-22-14
 335 imm ♀ Citellus beecheyi wt. 148.9 gm 285-108-46-20
 336 ♀ Citellus beecheyi wt. 650. gm 422-154-53-23

Apr. 26, 1951

- 337 imm ♀ Citellus beecheyi wt. 159.4 gm 290-115-48-20
 338 ad ♀ Neotoma fuscipes wt. 170.6 gm 298-113-40-30^{off}
 339 imm ♀ Sylvilagus audubonii wt. 354.2 gm 280-48-67-57^{*}(U)
 340 imm. ♂ Citellus beecheyi wt. 111.4 gm 255-97-48-22

Apr. 27, 1951

- 341 ad ♂ Peromyscus maniculatus wt. 18.3 gm 155-67-18-15
 342 ad ♀ Peromyscus maniculatus wt. 20.9 gm 165-72-19-16
 343 Gerrhonotus multi-carinatus Released (ticks)
 344 Sceloporus occidentalis Released (ticks)
 345 ♂ Microtus californicus wt. 21.4 gm 123-36-21-13
 346 ad ♀ Microtus californicus wt. 54.6 gm 181-54-21-16

Apr. 28, 1951

- 347 imm ♀ Citellus beecheyi wt. 156.3 gm 292-124-47-22

Apr. 29, 1951

- 348 ♀ Microtus wt. 19.3 gm 123-35-20-12
 349 s-ad ♂ " wt. 32.6 gm 155-53-22-15
 350. imm ♂ " wt. 10.3 gm 102-28-18-10
 351. ♂ Peromyscus californicus wt. 30.6 gm 214-114-26-24

Apr. 30, 1951

- 352 imm ♀ Mus wt. 8.7 gm 125-61-15-11
 353. ad ♀ Mus wt. 11.5 gm 135-64-16-12
 354. ad ♀ " wt. 21.6 gm 174-86-18-12
 355. ad ♂ " wt. 19.3 gm 170-84-17-13
 356 s-ad ♂ Peromyscus truei wt. 17.4 gm 173-94-21-22
 357 imm. Pica nuttallii Preserved.

May 1, 1951

- 358 ad ♀ Peromyscus californicus wt. 42.1 gm 252-143-27-25
 359 ad ♂ Thomomys wt. 62.5 gm 238-78-30-6
 360 imm ♀ " wt. 46.7 gm 160-58-26-5

Hastings Reservation, Monterey Co., Calif.May 2, 1951

361. ad ♂ Thomomys bottae wt. 139.0 gm. 215-66-28-6
 362. s-ad ♂ Peromyscus truei wt. 21.7 gm. 190-102-22-22
 363. imm ♀ Thomomys bottae wt. 101.4 gm. 178-58-26-7
 364. imm. ♀ Thomomys bottae wt. 97.1 gm 199-62-26-6

May 3, 1951

365. s-ad. ♀ Thomomys bottae wt. 91.8 gm 186-64-27-7
 366 s-ad ♀ Thomomys bottae wt. 81.0 gm 186-60-24-7
 367 s-ad ♀ Thomomys bottae wt. 101.9 gm 202-57-27-7
 368 s-ad. ♀ Thomomys bottae wt. 103.0 gm. 207-68-26
 369. imm. Microtus californicus wt. 8.1 gm 78-18-13-3(C) Preserved

May 4, 1951

370. ad. ♀ Thomomys bottae wt. 140.7 gm. 213-65-26-6

May 5, 1951

371. imm ♂ Mus musculus wt. 7.3 gm 122-59-15-18
 372 ♀ Peromyscus californicus wt. 30.6 gm 215-119-25-25

May 6, 1951

373. ♀ Scapanus latimanus wt. 62.5 gm 157-56-20
 374. ♀ Thomomys bottae wt. 111.9 gm 195-57-27-7

May 7, 1951

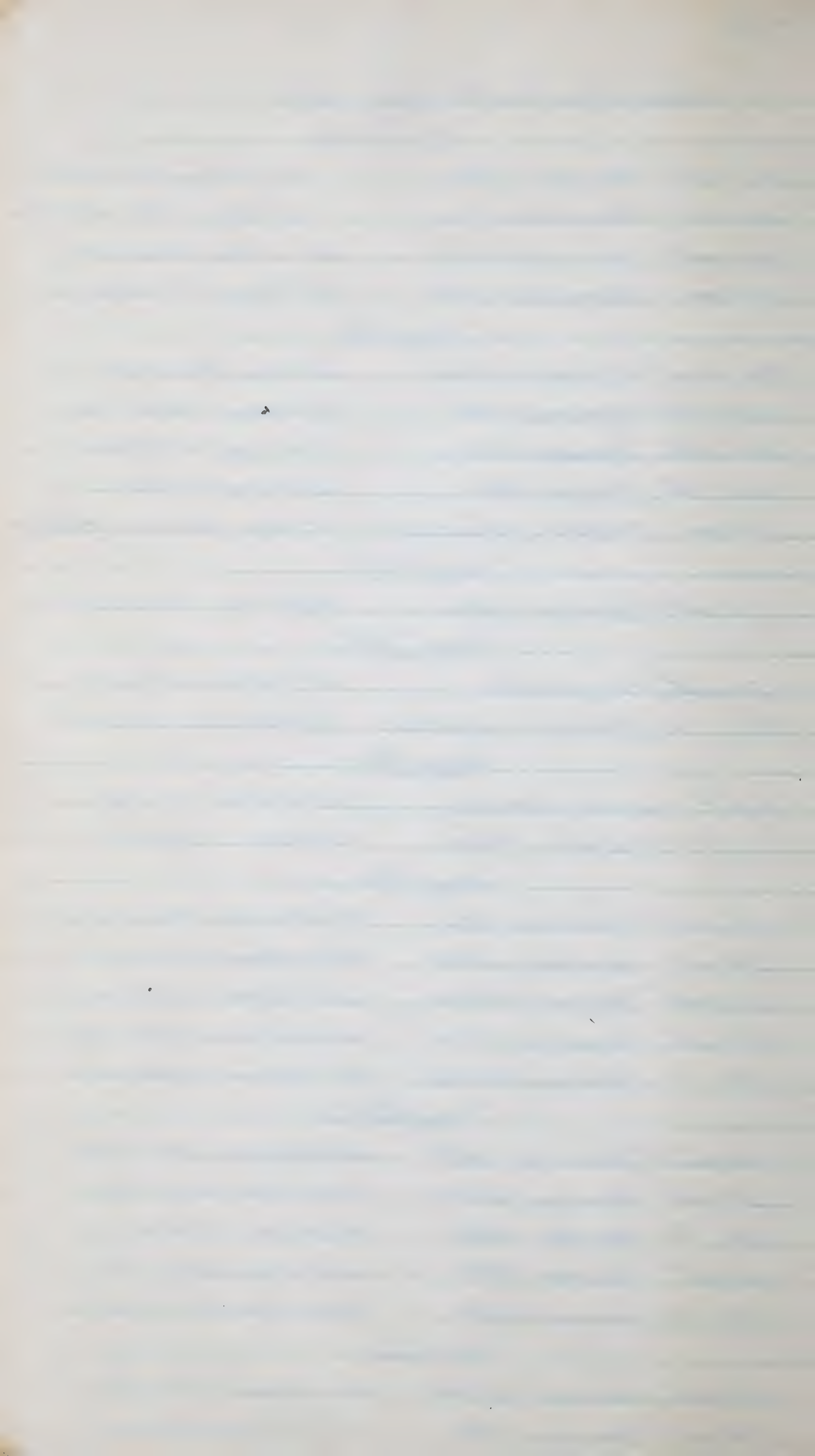
375. s-ad. ♂ Thomomys bottae wt. 96.3 gm 189-58-26-6
 376. imm. ♀ Thomomys bottae wt. 70.5 gm 177-61-25-6
 377. s-ad ♀ Thomomys bottae wt. 94.1 gm 183-57-28-7
 378. ad. ♀ Thomomys bottae wt. 123.4 gm 189-60-26-7
 379. ♀ Thomomys bottae wt. 69.8 gm 177-60-25-6

May 8, 1951

380. ad. ♂ Thomomys bottae wt. 135.2 gm. 218-69-38-7
 381. s-ad ♀ Thomomys bottae wt. 84.7 gm 186-54-28-7
 382. ♀ Thomomys bottae wt. 130.0 gm. 214-60-30-7
 383 imm ♀ Thomomys bottae wt. 64.3 gm 169-57-27-6
 384. ♀ Thomomys bottae wt. 103.0 gm. 194-49-25-6

May 9, 1951

- 385 ad. ♂ Thomomys bottae wt. 139.5 gm 214-67-30-7
 386 ad. ♂ Thomomys bottae wt. 126.8 gm 218-74-30-7



Hastings Reservation, Monterey Co., Calif.

May 9, 1951

387. ♀ Thomomys bottae wt. 76.3 gm. 181-55-26-5
388. ♀ Peromyscus maniculatus wt. 20.0 gm 149-60-19-16

May 10, 1951

- 389 ♀ Thomomys bottae wt. 115.3 gm. 104-66-27-7
390 ad. ♂ Thomomys bottae wt. 150.0 gm. 225-63-28-8

May 11, 1951

- 391 ad ♀ Thomomys bottae wt. 96.9 gm 195-51-25-7
392 ad ♂ Thomomys bottae wt. 171.2 gm 225-60-28-8
393 s-ad. ♂ Thomomys bottae wt. 95.4 gm. 103-63-27-6
394 s-ad. ♂ Peromyscus maniculatus wt. 15.9 gm 147-65-19-16
395 ad. ♂ Peromyscus californicus wt. 29.5 gm. 237-136-25-23

May 12, 1951

396. ad. ♂ Thomomys bottae wt. 133.8 gm. 204-55-27-7
397. s-ad ♀ Thomomys bottae wt. 105.5 gm. 190-54-27-6
398. ad. ♂ Thomomys bottae wt. 118.5 gm. 205-59-30-7
399. ad. ♂ Thomomys bottae wt. 134.5 gm 218-70-28-7

May 13, 1951

400. ad. ♀ Thomomys bottae wt. 119.2 gm. 201-68-29-7
401. ad. ♂ Thomomys bottae wt. 152.3 gm. 223-70-29-7

May 14, 1951

- 402 s-ad ♀ Thomomys bottae wt. 109.2 gm 182-56-27-7
403. ♂ Thomomys bottae wt. 58.8 gm 163-47-26-6 *

May 15, 1951

404. ad ♂ Thomomys bottae wt. 159.8 gm. 227-65-33-8
405. s-ad ♀ Thomomys bottae wt. 96.8 gms. 183-55-27-7
406. ad ♂ Thomomys bottae wt. 175.8 gms 212-59-30-8
407. s-ad. ♀ Thomomys bottae wt. 103.1 gms. 200-59-27-7

May 16, 1951

408. imm ♂ Thomomys bottae wt. 79.1 gm. 191-56-27-7
409. s-ad. ♂ Thomomys bottae wt. 93.2 gms. 193-56-30-7
410. s-ad. ♀ Thomomys bottae wt. 88.5 gms 193-57-27-7
411. s-ad. ♀ Thomomys bottae wt. 76.6 gms 183-56-25-6
412 s-ad ♂ Peromyscus truei wt. 19.4 gms. 181-95-22-22

Hastings Reservation, Monterey Co., Calif.

- 413 s-ad ♀ Peromyscus boylii wt. 22.3 gm. 178-92-21-21
 414 s-ad ♀ Thomomys bottae wt. 98.5 gm 212-63-28-7
 415 s-ad ♂ Peromyscus californicus wt. 31.0 gm. 235-130-25-25

May 17, 1951

- 416 s-ad ♀ Thomomys bottae wt. 93.8 gm. 189-~~52~~⁵²-25-8
 417 s-ad ♀ " " wt. 96.0 gms 191-56-27-7
 418 s-ad ♂ " " wt. 110.8 gms 204-65-27-7
 419 ♂ Microtus californicus wt. 57.0 gms 190-56-22-14

May 18, 1951

- 420 ad ♂ Thomomys bottae wt. 175.4 gms. 222-68-31-7
 421 ♀ " " wt. 99.7 gms 203-64-26-6
 422 ad ♂ Lynx rufus 810-155-160-65

May 19, 1951

- 423 imm ♀ Thomomys bottae wt. 72.6 gms 183-58-25-6
 424 ad Thomomys bottae wt. 137.0 gms 219-65-31-7

May 20, 1951

- 425 ♀ Microtus californicus wt. 44.0 gms 168-50-21-17
 426 ad ♀ Microtus californicus wt. 64.2 gms 169-50-22-17

May 21, 1951

- 427 ad ♂ Microtus californicus wt. 58.3 gms. 179-58-22-17
 428 s-ad ♀ " " wt. 35.0 gms 152-58-20-16
 429 imm. ♀ " " wt. 10.0 gm. 123-36-20-14
 430 ♀ Citellus beecheyi wt. 410.0 gm. 406-164-56-26

May 22, 1951

- 431 s-ad ♂ Peromyscus maniculatus wt. 15.7 gms. 158-77-20-17 *
 432 ad ♂ Sceloporus occidentalis wt. 15.3 gm T.L. 170; t-v 91
 433 ♂ Citellus beecheyi wt. 521.3 gm 433-169-56-27
 434 ♂ Eutamias merriami Released

May 23, 1951

- 435 imm Sylvilagus audubonii Released
 436 s-ad Sylvilagus audubonii Released
 437 ♀ Bubo boreus wt. 121.3 gm
 438 imm. ♀ Citellus wt. 394.7 gm 390-156-52-25

Hastings Reservation, Monterey Co., Calif.

May 23, 1951

439.	imm ♀	<u>Citellus beecheyi</u>	wt. 379.5 gm 377-169-52-24
440.	imm ♀	<u>Citellus beecheyi</u>	wt. 311.5 gm. 363-145-52-24
441.	imm ♀	<u>Citellus beecheyi</u>	wt. 343.3 gm 383-144-51-25
442.	imm. ♀	<u>Citellus beecheyi</u>	wt. 320.0 gm 363-152-54-25
443	imm. ♀	<u>Citellus beecheyi</u>	wt. 316.3 gm 372-152-55-23
444	imm. ♂	<u>Citellus beecheyi</u>	wt. 407.5 gm 403-156-57-24

May 24, 1951

445	♀	<u>Cnemidophorus tesselatus</u>	wt. 23.2 gm
446.	imm ♀	<u>Thomomys bottae</u>	wt. 72.6 gm. 184-58-26-7
447.		<u>Sylvilagus audubonii</u>	Released
448.	imm ♀	<u>Microtus californicus</u>	wt. 27.6 gm 134-44-22-15
449	imm ♀	<u>Sylvilagus audubonii</u>	wt. 587.0 gm 347-45-81-67
450	imm. ♂	<u>Citellus beecheyi</u>	wt. 414.6 gm. 391-146-55-27
451	imm. ♂	<u>Citellus beecheyi</u>	wt. 441.3 gm. 388-170-54-27
452	imm ♂	<u>Citellus beecheyi</u>	wt. 365.4 gm 385-146-56-26

May 25, 1951

453.	ad. ♀	<u>Peromyscus maniculatus</u>	wt. 24.7 gm. 178-82-21-18
454.	ad ♂	<u>Cnemidophorus tesselatus</u>	wt. 23.8 gm. TL 322; T-V. 229
455.	imm. ♂	<u>Citellus beecheyi</u>	wt. 263.8 gm. 355-152-52-24
456	imm. ♀	<u>Citellus beecheyi</u>	wt. 386.0 gm. 400-157-55-27
457.	imm. ♀	<u>Citellus beecheyi</u>	wt. 355.3 gm 364-143-52-28

May 26, 1951

458.	♀	<u>Neotoma fuscipes</u>	wt. 124.1 gm. 320-164-36-29
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May 27, 1951

459.	imm. ♀	<u>Neotoma fuscipes</u>	wt. 151.1 gm. 336-174-39-30
460.	ad. ♂	<u>Neotoma fuscipes</u>	wt. 310.8 gm. 386-180-41-31
461.	imm. ♀	<u>Thomomys bottae</u>	wt. 79.6 gm. 191-58-27-7

July 8, 1951

Moreno Badlands, 6 mi E Moreno, Riverside Co., Calif.

462	imm ♀	<u>Carpodacus mexicanus</u>	
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Catalogue

July 19, 1951

W. Bitterwater, Monterey Co., Calif. coll. by. W. MacGregor

462. 1mm. ♂ Pica nuttalli

August 8, 1951

1 mi. N. Arlington mine, 20 mi. W. 15 1/2 mi. N. Blythe, Riverside Co., Calif.

463. Zenaida asiatica nest (in ironwood)

464. Zenaida asiatica egg

465. Zenaida asiatica egg

November, 1951

466. Sciurus douglasii albolimbatus ♂ 344-138-50-21 (coll. V. Mowbray)

467. Sciurus griseus griseus ♂ 566-278-73-29 (" ")

gift from MVZ; no skulls; from Yosemite Nat. Pk. Mus.; Yosemite Valley

December 25, 1951

⁴
~~2 1/2~~ miles N. Foothill Blvd., on Edwanda Ave., elev. 2500';

468. ♂ 1mm. Passerella iliaca

fat

469. ♂ 1mm. Pipilo fuscus

not "

470. ♂ 1mm. Junco oreganus

December 29, 1951

elev. 2000'

Mouth of San Antonio Canyon (E), N. Upland, San Bernardino Co., Calif.

471. ♂ ad. Thomomys bottae

February 29, 1952

Zoöl. 145 Lab., Life Science Bldg., University of California, Berkeley, Alameda Co., Calif.

472. ♀ Rattus

Mar. 1, 1952

4 1/2 SW Martinez, Contra Costa Co., Calif. coll. Dick Kennelly

473. ♂ imm Agelaius phoeniceus testes small

March 1952

pick-up

West gate, University of California, Berkeley, Alameda Co., Calif.

nothing
election

474. ♂ imm Turdus migratorius

Testes 4x5 mm

coll. by Dick Kennelly

475. ♀ imm. Columba livia

Cristman, J.H.

1952

Catalogue

(Mar. 28, 1952)

- | | | | | |
|---|------------|----------------------|---|------------|
| | 476. ad. ♀ | <u>Columba livia</u> | embalmed from Zool. Dept. U.C. for dissection | |
| * | 477. ad ♀ | " " | - skeleton saved. | } April 26 |
| | 478. ad. ♂ | " " | - | |
| | 479. ad ♀ | " " | - | |
| | | | | May 6 |
| * | 480. ad. ♀ | " " | - skeleton saved | May 19 |
| * | 481. ad. ♀ | " " | - " " | June 13 |

MVZ
Collection

- | | | | |
|--|------|-------------------------------|---|
| | 482. | " " | |
| | 483 | " " | |
| | 484 | " " | |
| | 485 | " " | |
| | 486 | " " | |
| | 487 | " " | |
| | 488 | " " | |
| | 489 | " " | |
| | 490 | " " | |
| | 491 | " " | |
| | 492 | " " | |
| | 493 | " " | |
| | 494 | " " | |
| | 495 | " " | |
| | 496 | " " | |
| | 497 | " " | |
| | 498 | " " | |
| | 499 | " " | |
| | 500 | " " | |
| | 501 | " " | |
| | 502 | " " | |
| | 503 | " " | |
| | 504. | ♀ <u>Streptopelia risoria</u> | gonads only (see R.F. Johnson *189 - Aug. 27, 1952) |
| | 505. | <u>Columba livia</u> | |
| | 506 | " " | |
| | 507 | " " | |
| | 508. | " " | |

istman, S. M.
1952

Catalogue

509	✓	<u>Columba</u>	<u>livia</u>	see "collections" in pigeon notes
510	✓	"	"	" " "
511	✓	"	"	
512	✓	"	"	" " "
513	✓	"	"	
514	✓	"	"	" " "
515	✓	"	"	
516	✓	"	"	" " "
517	✓	"	"	
518		<i>Melospiza melodia</i>		
519		<u>Columba</u>	<u>livia</u>	
520		"	"	
521		"	"	
522		"	"	
523		"	"	
524	♀ XXI ✓	"	"	
525	♀ XXII ✓	"	"	
526	♂	"	"	
527	♂	"	"	
528	♂	"	"	
529	♂	"	"	
530	♀	"	"	
531	♀	"	"	
532	♂	"	"	
533	♂	"	"	
534	♂	"	"	
535	♀	"	"	
536	♀ XXIII	"	"	
537	♀	"	"	
538	♀	"	"	
539	♀ XXIV	"	"	
540	♀ XV	"	"	
541		"	"	
542		"	"	

Christman, S.M.
1952

Catalogue

Nov. 29 1/2 mi. SW Manly Ranch, 4 mi. W. Lakeport, Lake Co., Calif.

ad. p. 543. ♂ *pubescens* testes 1 mm ± wt. 57.4 gm.

544 ad. ♀ * *Oreortyx picta* no oviducts, very fat, wt. 253 gm

November 30, 1952

p. 545. ad. ♀ *Aphelocoma coerulescens calvinia* (?) - wt. 78.9 gm

546. ad. ♂ *Toxostoma* testes - 2 mm. wt. 103 gms

547. *Columba livia*

548. " "

549. " "

550. " "

551. " "

552. " "

553. " "

554. " "

555. " "

556. " "

557. " "

558. " "

559. " "

560. " "

561. " "

562. " "

563. " "

564. " "

565. " "

566. " "

Dec. 14, 1952

Brooks Island

collected by R. Genelly

567 ♂ *Oxyura*

testis (lt.) 9 mm. wt. 637.5 gms.

568 *Columba livia*

Dec. 17

569 ♂ " "

" 18

* crop contents saved - to F. & G. Food habits lab.

Kristman, D.M.
1952-
1953

Catalogue

December 26, 1952

2 mi SSE Yucca Valley (Warren's well) near Maricopa Valley, San Bernardino Co., Calif

570. ♂ (ad.?) Heleodytes brunneicapillus

testes - 2 mm

571 ♂ Dendrocopos scalaris

testes 2± mm

572 Columba livia

Lake Merritt

573 C. " "

" "

574 " "

" "

January 29, 1953

575. ♀ Larus calis

362.0 gms

Albany, Alameda Co., Calif

coll. by David Johnston

February 5, 1953

576. ad. ♀ Junco oreganus

15.4 gm

found dead on U.C. Campus, Berkeley, Alameda Co., Calif

1 mi S. Banner, Butte Co., Calif.

D.O.R.

coll. W.G. MacGregor

577. ♀ Columba fasciata

preserved —

wt. 395.

578 Columba livia

579 " "

580 " "

Feb. 11, 1953 (coll. Feb. 6)

D.O.R. 1 mi. S. Lower Lake Lake Co., Calif.

coll. David Johnston

581 ad. ♀ Sturnella neglecta

all ova under 1 mm.

wt. 88.5

582 Columba livia

583 " "

584 " " XXX

585 " " XXXI

586 " " XXXII

587 " " (582)

588 " " (581)

589 " "

590 " "

591 " "

Christman, J.
1953

Catalogue

Berkeley + Bay area

592			Columba livia		data sheets
593	✓		" "		"
594	✓		" "		"
595	✓	♀	" "	#68	"
596	✓	♀	" "	#83	"
597	✓	♀	" "	—	"
598	✓	♀	" "	#75	"
599			" "		"
600			" "		"
601			" "		"
602			" "		"
603			" "		"
604			" "		"
605			" "		"
606			" "		"
607			" "		"
608			" "		"
609			" "		"

Coll. D. Johnston

610 ad ♀ Dendroica auduboni

119 gm.

Mar. 8, 1953

3 1/2 mi. W. Lakeport, Lake Co., Calif. in orchard Manly Ranch; Dick Take

611 (ad. ♀?) Cyanocitta stelleri

112.5 gm.

4 mi. SW Lakeport, Lake Co., Calif. in deciduous oaks in very open wood land.

612 ad. ♂ Aphelocoma

testes 7 mm.

90.3 gm.

"4 mi. glade," mi. W. Lakeport, Lake Co., Calif. Sherton road at 7: PM ± (dark)

613 ♂ Phalaenoptilus nuttallii

testes 3 mm. (light color); fatty 50. gm.

Mar. 24, 1953

Berkeley Dump, Alameda Co., Calif. found alive on shore, old

wing
head

614 ♂ Hemiphysalis occidentalis

Mr. Makino took testes ^{chromosome} study in Japan.

1953

Catalogue

Berkeley, Alameda Co., California

615	<i>Columba livia</i>	on data sheet	✓
616	" "	" " "	✓
617	" "	" " "	✓
618	" "	" " "	✓
619	" "	" " "	✓

June 19, 19531 mi. NW. Levitt meadows, Mono Co., Calif. - 7550 ft.620. ad. ♂ (2 mm testes) *Stellula calliope*MVZ 621 ad. ♀ *Dryobates albolarvatus* 56 gms.~~1 mi. N of Leevining, shore of Mono Lake, Mono Co., Calif. elev. 6425 ft.~~622 ad ♀ *Hctitis macularia* 47 gms.

oviduct enlarged, 17 mm. yellow ova 2-4 mm in diam

June 20, 19531 1/4 mi. ESE Leevining, Mono Co., Calif. elev. 6425 ft.623 ad. ♀ *Oncorhynchus leucogaster* 137-33-19-17 (notch) ^{lactating} _{Post-partus}624 ♀ *Perognatus parvus* 152-80-22-8 "

625 ♂ " 155-76-23-9 "

1 mi. N. Leevining, shore of Mono Lake, Mono Co., Calif. Elev. 6425 ft.626 ad. ♂ *Recurvirostra americana* (155-76-23-9)1 1/4 mi. ESE Leevining, Mono Co., Calif. elev. 6450 ft on roadMVZ 627 ad ♀ *Chordeiles minor* 53 mm ova; 1 ovid. foll.628 ♂ *Thryothorus* 1 mm. testesPacker Island, Mono Lake, Mono Co., Calif.MVZ 629 ad. ♀ *Zonotrichia* extensive brood patch" 630 ad ♂ *Sparrow* closed protuber. Testes 8x10 mm631 ad. ♂ *Chondestes* " " collected where 622 wasDec. 203 mi. N of Leevining, Mono Co., Calif. elev. 6425 ft.643 ♀ *Scolecophagus* 64 mm, 10 mm, 10 mm

chelon telephium, 10 mm, 10 mm, 10 mm

chelon (10 mm) 10 mm, 10 mm, 10 mm

Richard, J. G.

Collection

August 17, 1953

1 mi. W. ~~Alta~~ Loma, San Bernardino Co., Calif.

632

ab.

Dec. 15, 1953

~~633~~ 1 mi W. Alta Loma, San Bernardino Co., Calif.

633 ad. ♂ Thryomanes bewickii

testes 1 mm

634 ad. ?

Sept. 13 1953
~~Dec.~~

(Coll. A. Bartholomew)

2 1/2 mi. W., 4 mi. N. Upland,

San Bernardino Co., Calif.

635 ♂ Sylvilagus auduboni cer 70 (N), HF 85, T 49. testes 37 x 19

6 October 1954

KRNT^N Tower, Des Moines, Polk Co., Iowa

636 ad. ♀ Passerina cyanea ovary small even granular fat

637 imm. ♀ Vireo solitarius " " " " "

638 imm. ♀ Vireo olivaceus " " " " heavy "

639 imm. ♂ yellow throat testes = 2 ± 1 mm. " "

640 imm. ♀ ovary small a little "
(coelom filled with round worms)

641 ad. ♀ " " finely granular little "

7 Oct. 1954

(locality as above)

642 ? ♀ ovary small - heavy fat

20 Dec.

3 mi. N. Foothill Blvd, on Edicanda Ave,

San Bernardino Co., Calif.

643 ♀ Bubo virginianus

December 25, 1954

1 mi. NW Alta Loma, San Bernardino Co., Calif.

644 ad. ♀ Falco sparverius ova small, - 1 mm.

Dec. 26 1954

same loc.

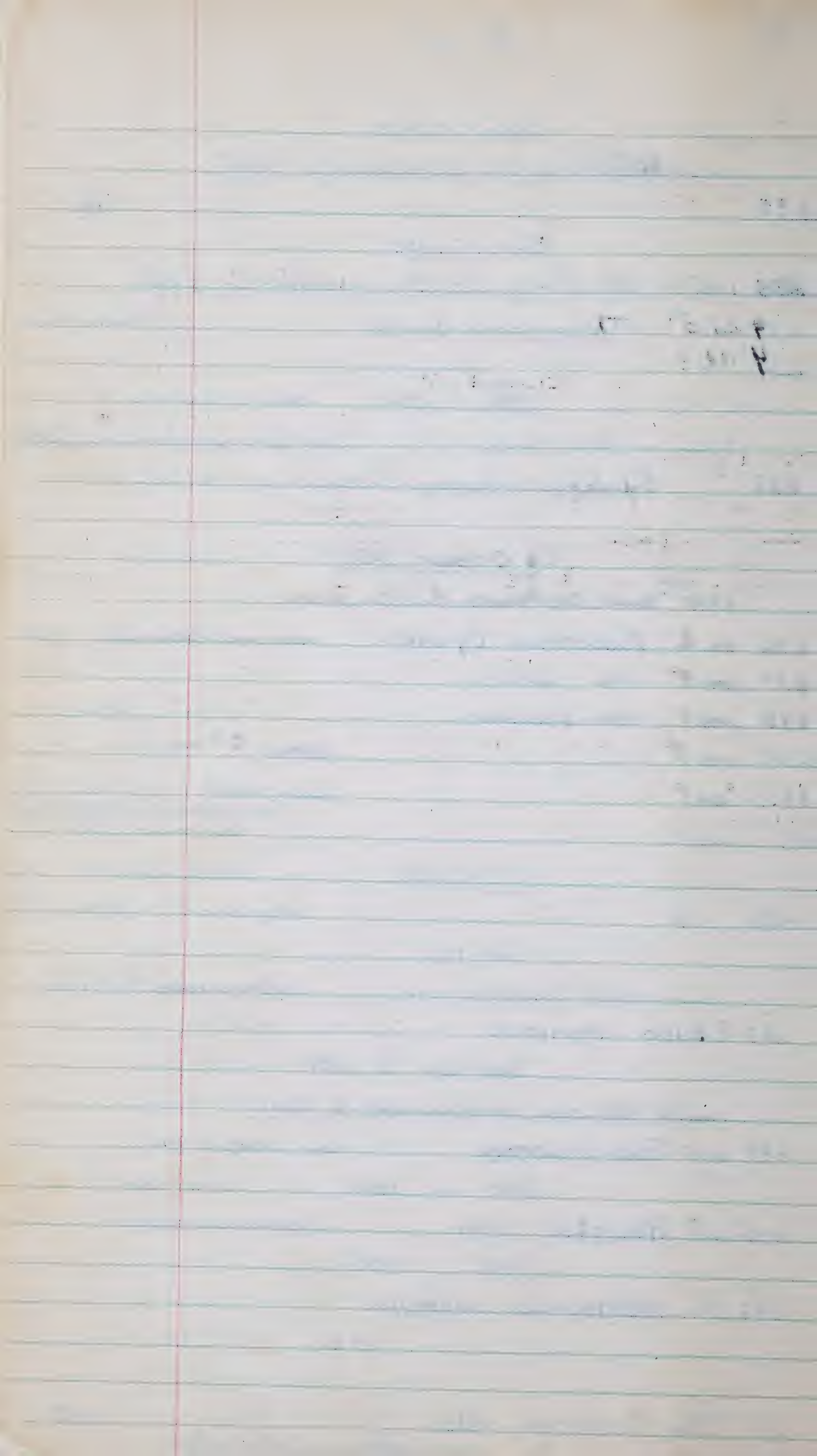
645 ad ♀ Accipiter velox (operantia crop)

Sept. 1955

646 imm Melospiza melodia

1956

647 (??) ♀ imm. Accipiter velox no fat
crop - feathers, meat, pin feathers.



Wishman, G.C.

Collection

21 Dec. 1956

5 $\frac{1}{2}$ mi. S. Simmler, Carrizo Plains, San Luis Obispo Co., Calif.

647 ad. ♀ *Otocoris alpestris*

648 ad ♂(?)

23 Dec. 1956

Alta Loma, San Bernardino Co., Calif. home

649 ad. ♂ *Mimus polyglottus*

30~~28~~ Dec. 1956

5 mi. SE Coalinga, Fresno Co., Calif.

650. ad ♀ *Lanius*

ovary-large minutely granular. per. 1

19 Jan. 1957

D.O.R.

Marin Co., Calif.

651. ♀

556-264-79-35 (U)

27 Feb. 1957

1 $\frac{1}{2}$ mi. E. Lake Chabot, Solano Co., Calif. (Vic. Lewis)

652 ad. ♂ *Gallinula chloropus*

(116 study Collection)

653 imm(?) ♀

" "

2 foll. 1 mm
ovary granular minutely

18 August 1957

Small lake NE Lake Winnamucca, Alpine Co., Calif. 9,000+ ft

WZ { 654 ad. *Rana boylei* (66188)
655 Tadpole " " (66189)
656 " " " (66190)

29 Aug. 1957 = Hopland Collection

Hopland Field station, Mendocino Co., Calif

657 ad. ♀ *Salicetia*

large granular ovary 81 gm.

658 ad. ♂ *Thamnophis*

16.7 gm

6 Sept. 1957

2 mi. N. Alta Loma, San Bernardino Co., Calif.

659. imm. ♂ *Thamnophis* To 1 mm

very fat

660 imm ♀ *Thamnophis*

very red-brown dorsal

661 ad. ♀ *Thamnophis*

very small granular

³
14 April 1958

14.7 mi. NE Globe, Gila Co., Arizona on Hwy 77 Semi-desert
Grassland

662 *Chionactis occipitalis* (66812)

13.9 mi. NE Globe, Gila Co., Arizona on Hwy 77 Chaparral

663 pick-up skull-jaws only Peccary (122411)

4 April 1958

15 mi. SE Globe, Gila Co., Arizona on Hwy 70 desert scrub

664 *Sceloporus undulatus* (66817)

5 April 1958

3.6 mi. E of bridge at Ehrenberg, Yuma Co., Arizona

665 *Cnemidophorus sacki* (66818)

666 *Uta stansburiana* (66819)

667 *Uta* " (66820)

23 mi. S. of Needles, San Bernardino Co., Calif.

668 *Uta stansburiana* (66821)

~~669~~ Dec. 3, 1958

Tule Duck Club, 10 mi S. Marysville, Yuba Co., Calif.

669 imm ♂ *Rimantodytes palustris*

670 ♀ *Podilymbus podiceps*

671 ♂ *Am. B. Flamingo* (testes 2x11 and 3x9 mm)

10 April 1959

1 1/2 mi. W. of Weed, Siskiyou Co., on Shasta River, 3,100'; Calif.

672. eggs frog

673. snakes

11 April 1959

Dickson Flat, on Hwy. 89, ^{Shasta} ~~Siskiyou~~ Co., Cal. 4,200 ft

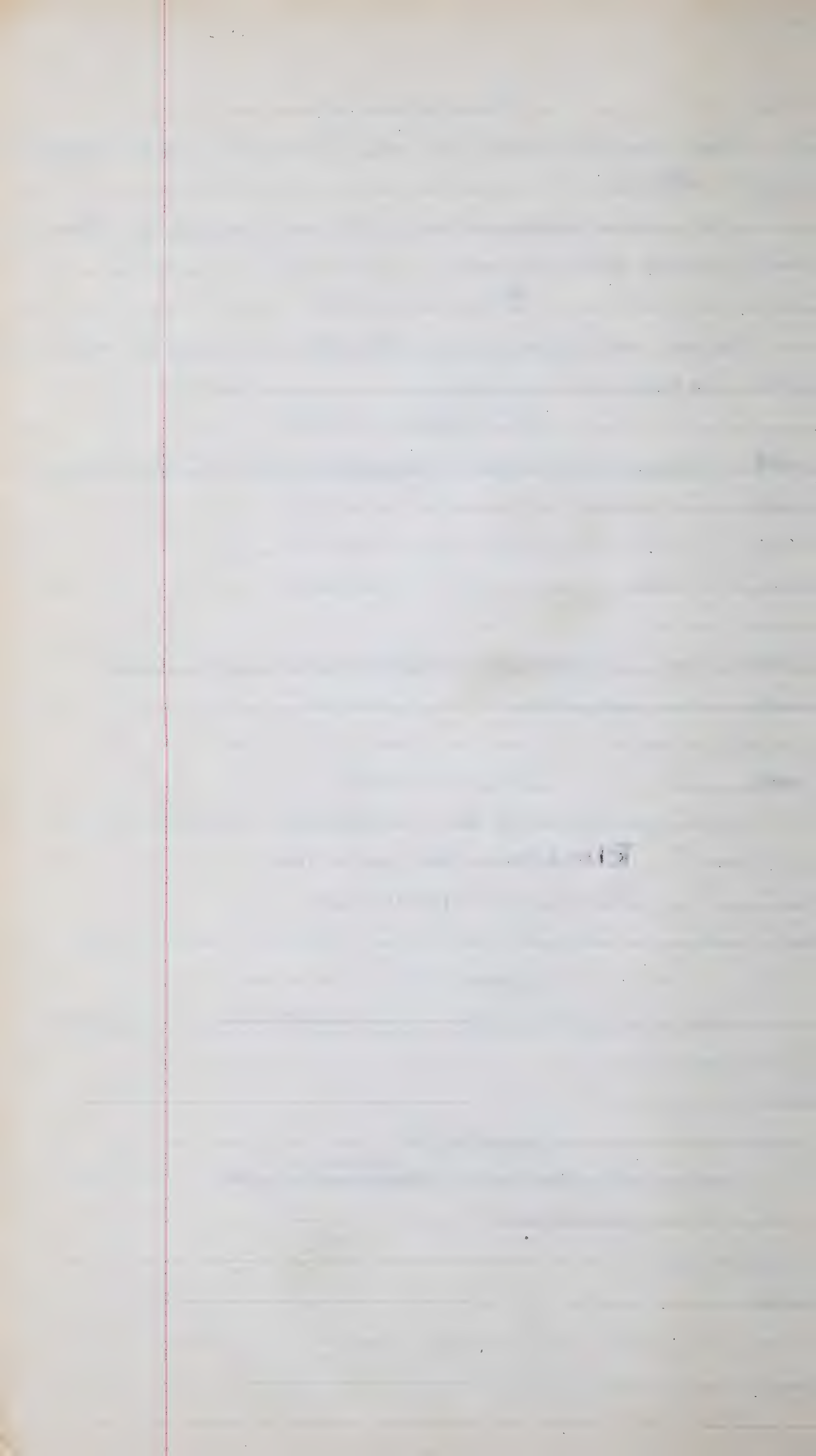
7 3/4 mi. NNW Cayton

674 *Gophers*

675

676

677



Dristman
1959-
1960

Collection

Sept. 13, 1959

Navajo Cr., W. Navajo, Mendocino Co., Cal.

678

Rana boylei

MTZ

Sept 20, 1959

10 mi. S. Marysville, Yuba Co., Calif. "Cattail Club"

679

♀ *Gallinula chloropus leuc. l. 20* pale grayish granular ovary

6 Dec. 1959

Cattail Club, 10 mi. S. Marysville, Yuba Co., Calif.

680

♀ *Totanus flavipes*

681

♀ " *melano leucus*

682 - 699 Joshua Tree N.M. Trip

all specimens in MVZ

4 July 1960

Brooks Island

(pickup - Bill Littleke,

700

ad. ♂ *Surf Scoter*

Testes 3x12 mm.

The following blackbirds were collected by Gordon Orans, under his permit & were put up in my special way.

Nov. 6, 1959 (kept in my captivity till put up on 10 Dec. 59

4 mi. W. Colusa, Colusa Co., Calif.

701

ad ♀ *reith. l. 20*

May 8, 1960

Nashel Ranch (Cattail Club), 10 mi. S. Marysville, Yuba Co.

702

♂ *Agelaius* p.

703

♂

704

♀

May 30, 1960

Nashel Ranch

705

♂

A.

p.

first year

13 mi. NE Colusa, Colusa Co., Cal.

706

ad ♂

Estman, J. M.
1960

Collection

continuation of *Oreanus blackbirds* —
June 8

15 mi. NE Colusa, Colusa Co., Calif.

707 ♂ *A. tricolor*

708 ♂ "

709 ♀ "

Oct. 2, 1960

changed

(707) Naskell Ranch, 10 mi. S. Marysville, Yuba Co., Calif.

MZ 710 ad. ♂ *Agelaius tricolor* skull oss. testes 3x4mm test. 64.3
gms.

Oct 11, 1960

same locality

713 ad. ♂ *Agelaius tricolor*

714 ad. ♂ " "

715 ad. ♀ " "

716 ad. ♂ " "

717 imm. ♂ " *phaeniceus*

718 ad. ♀ " *tricolor*

719 imm. ♂ " "

720 imm. ♂ " *phaen.*

721 ad. ♀ " *tricolor*

722 imm. ♂ " *phaen*

723 ad. ♀ " *tricolor*

MZ coll.

724 ad. ♂ *Sparrow*

26 Nov. 1960

680 Spruce, Berkeley, Alameda Co., Cal. - furred
dead by Charles A. Pease.

711 ♂ *Anna Hummingbird* testes 1mm. heavy fat

2 Jan. 1961

712 Naskell Ranch, 10 mi. S. Marysville, Yuba Co., Calif.

ad. ♀ *Wilson's Snipe*

3
9

Westman, S. M.
1961

Collection

725 -
849

Museum of Vertebrate Zoology field trip to the Sierra
del Rio, Chihuahua, Mexico 14 August to 8 Sept.
Specimens in MVZ collection

October 22, 1961

Berkeley, Alameda Co., California

850 ♂ s.n.o. Hylocichla guttata

Dec. 13, 1961

851 ♂ s.n.o. Dendroica townsendi

Berkeley, Alameda Co.
mod. fat, testes - 1 mm.
Coll. A. J. Koenig ^{San Ridge}

30 Dec. 1961

10 mi. S.,

Marysville, Yuba Co., Calif.

852 ♂ Anas acuta

853 ♂ Hythya collaris

854 ♂ Ondatra z. ~~destroyed~~

30 April 1962

4 mi. NW Orinda, 450 ft., Contra Costa Co., Calif.

salvaged from R. Root stomach sample series &
collected under his permit

855 ad. ♂ Dendroica occidentalis

856 ad. ♂ " townsendi

857 ad. ? Myarchos cin.

858-926 MVZ trip to Snake Range Nevada

14 Oct. 1962

by H. G. Cogswell

Alameda, Alameda Co., Cal. Pick ups of storm kills

927 imm. ♂ Common Tern

testes 2 mm - small amount fat

928 ad. ♀ Western Gull

small granular ovary " " "

28 Oct. 1962

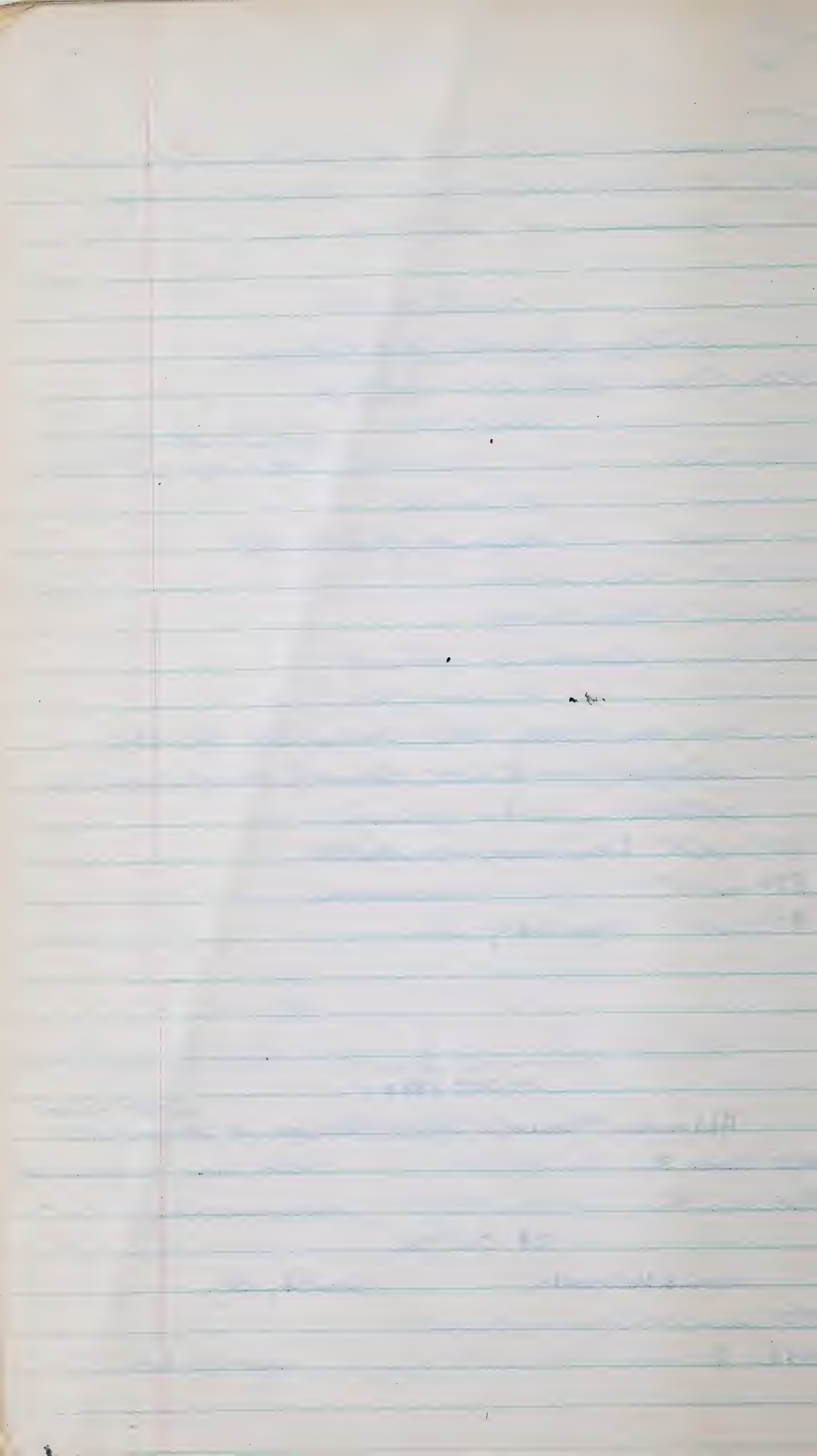
10 mi. S. Marysville,

, Yuba Co., Cal.

929 ad. (s.o.) ♂ (?) Regulus calendula

930 ♀ Gallinula chloropus

moderate fat



Christmas, G.D.
1963

Collection

24 Feb. 1963

Clearing Reservation,

Napa Co., Calif.

931 ad. ♂ *thrasher*

932 ad ♂ *wren*

933 ad. ♂ *Hopland Vireo*

testes 5mm

934 — 1109

in MVZ June 1963 Nevada

3 (6) July

Farallon

SE ~~Farallon~~ Island, San Francisco Co., Cal. Coll. D.R. Medina

1110 ♀ (?) *Phalaropus* *atrocis* no fat; died of starvation

2 Oct.

Emeryville, Alameda Co., O', Calif. (# 398 G.E. Chaniot)

1111 ♀ *Catantophorus* *semitarsatus* moderate fat, minute ova ^{wt. 379.9}

3 Nov.

10 mi. S. Marysville, Yuba Co., Calif.

1112 ♀ *Oxyura j.* little fat.

1113 ♀ *Accipiter striatus*

1114 ♀ (juv.) *Ondatra z.* little fat, juv. - small anaptychus 436-192-76-21 ^{skull crushed - not saved}

1115 ♂ imm. skull n.o.s. *Pipilo* *maculatus* slight fat

22 Dec.

Alta Loma, San Bernardino Co., Calif.

1116 ♀ (ad. sk.) *Parus gambelii*

164

25 April 1964

Hopland Field Station, 800 ± ft.

Mendocino Co., Calif.

1117 ♂ ad (s.o.) *Icterus bullockii*

clavical protub.
testes 10 x 7 mm, little fat.

1

26 April

Hopland Field Station, 2,700 ft., 2 mi E, 3 mi. N. Hopland, Mendocino Co., Calif.

1118 ♀ ad *Colaptes cafer* ova upto 3mm; moderate fat, bare breast.

1119 ♂ ad (sb. ova) *Phenictus melanocephalus* no fat, testes 12 x 8 mm ^{clavical protub.}

1120 ♂ *Melanerpes formicivorus* fat, testes 5 x 4 mm

1121 ♂ ad (sb. ova) *Pipilo eryth.* little fat, testes 12 x 6 mm clavical prot.

1122 ♂ ad (sb. ova) *Pitta carolinensis* no fat, testes 6 x 4 mm

1123 ♂ ad (sb. ova) *Myiarchus cinerascens* fat, testes 9 x 6 mm

Christman, S. E.

1964

26 April 1964

Hapland Field Station, 2730 ft., 2 mi. E, 3 mi. N. Hapland, Mendocino Co., Calif.

- 1124 ♂ (sk. oss.) Chondestes grammacus no fat, testes 6x11 mm
- 1125 ♂ (sk. oss.) Troglodytes aedon no fat, testes 7x4 mm
- 1126 ♂ (sk. oss.) Amphispiza belli little fat; testes 8x6 mm
- 1127 ♀ (sk. oss.) Sialia mexicana no fat, ^{many} ova 1 mm
- 1128 ♂ ad (sk. oss.) ~~Carpodacus~~ Spizella passerina fat; testes 5x4 mm
- 1129 ♂ ad (sk. oss.) Carpodacus fat, testes 2x2 mm. ^{for rare} 2 testes
- 1130 ♂ ad (sk. oss.) Dendroica auduboni fat, testes 2x3 mm
- 1131 ♂ ad (sk. oss.) Wilsonia pusilla moderate fat, testes 3x2 mm

10 August 1964

died in captivity, as "falcon", thru H. J. Peeters from "Arizona"

- 1132 ♀ Falco mexicanus small bilateral ovaries, a little fat

13 August 1964

(Hamburg, Germany) thru H. J. Peeters - died of injuries "falcon"

- 1133 ♂ imm. Accipiter testes 2x5 mm., little fat.

27 Aug. 1964

Oakland Air Port, Alameda Co., Calif. Coll. M. Pontrelli

- 1134 ♀ Speotyto cunicularia fat, small inactive ovary

6 Sept. 1964

10 mi. S. Marysville, Yuba Co., Calif.

- 1135 ♀? sk. no oss. Himantopus mexicanus fat

29 Nov. 1964

Cattail Club, 10 mi. S. Marysville, Yuba Co., Cal.

- 1136 ♂ Anas cyanoptera very fat, testes 9x4 mm
- 1137 ♂ Aythya collaris fat, testes 10x4 mm.

5 Dec. 1964

5⁺ mi. W. Monterey, at sea, Monterey Co., Calif.

- 1138 ♂? Cerorhinca monocerata fat

1⁺ mi. W. Monterey, at sea, Monterey Co., Calif.

- 1139 ♀ Synthliboramphus antigium many small ova, very fat
- 1140 ♀ Larus heermanni very small ova, very fat

Kristman, J. H.
1965

Collection

20 March

"Muddy Hollow", 60 ft., 3 1/4 mi. W, 1 1/4 mi. S. Point Reyes Station,
Marin Co., Calif.

- 1141 ♀ *Sphyrapicus varius* moderate fat, ova minute
- 1142 ^{sp. ovo.} ad. ♀ *Dendroica coronata* ova minute
- 1143 ad ♀ sp. ovo " " moderate fat, minute ova
- 1144 ♂ *Dendrocopos villosus* testes 11x6 mm. light fat

9 May

Bodega, Marin Co., Calif

pick ups by A. Sikora, U.C. 2 days

- 1145 ♀ *Lobipes lobatus* very fat, ova 1 mm. wt. 32.4 gm

1

< MVZ

Christman, J. H.
1965

Collection

May 24

10 miles N. Blythe, Riverside Co., Calif

- 1146 ♀ *Chordeiles acutipennis* 1 uncl. follicle; no fat, no head patch
• 1147 ♂ " " testes 7x4 mm " "

May 25

6 mi. S, 1 mi. W. Blythe, Riverside Co., California

- 1148 ♂ (sh. ova) no fat, testes 5x10 mm. MVZ
• 1149 ♂ *Zenaida asiatica* no fat, testes 5x16 mm. grain in crop, no "milk" window
• 1150 ♂ *Columbigallina passerina* no fat, testes 5x9 mm. sb. red ova
• 1151 ♀ " " no fat, ova 2 mm.

preserved specimens in MVZ

- 1152 *Zenaida asiatica*
• 1153 " "
• 1154 *Columbigallina passerina*
• 1155 " "
• 1156 " "

Oct. 8, 1965

1 mile SE Dillon Beach, Marin Co., Calif.

- 1157 ♂ *Larus heermanni* fat, testes 2x4 mm.
• 1158 ♂ *Limosa fedoa* moderate fat, 1x4 mm.
• 1159 ♀ *Charadrius alexandrinus* fat, many - 1 mm. ova
• 1160 ♂ *Coccythia alba* moderate fat, testes 2x3 mm
• 1161 ♂ *Erolia alpina* fat, testes 1 mm.
• 1162 ♂ *Sayornis saya* little fat, testes 1x1 mm

Oct. 21, 1965

Curry Canyon, 900 ft., 3 1/2 mi. E, 4 1/2 mi. S, Clayton, Contra Costa Co., Cal.

- 1163 ♀? *Zonotrichia querula* slight fat

Christman, J. M.
1965

Collection

25 Oct. 1965

Sagehen Creek Station, U.C., 6,400 ft., 3 mi. W., 2 mi. N.
Hobart Mills, Nevada Co., Calif.

- 1164 ♂ sk. ass. *Loxia curvirostris* very fat, testes 1 mm.
- 1165 ♂ sk. nov. *Spinus pinus* moderate fat
- 1166 ♀ *Dendrocapos villosus* minute ova, slightly fat
- 1167 ♂ sk. ass. *Sitta canadensis* testes 1 mm.
- 1168 ♀ *Regulus satrapa*

Nov. —

Oct. 1965

- 1169 ♂ moderate fat testes 1 mm.
- 1170
- 1171
- 1172

3 Dec

Curry Canyon, 900 ft., 3 1/2 mi. E, 4 1/2 mi. S, Clayton
Contra Costa Co., Calif.

- 1173 ♀ sk. ass. *Cyanocitta stelleri*, slightly fat, small ova
- 1174 ♂ *Lophortyx californicus* testes 2 x 3 mm, slight fat

25 Oct. 1965

Sagehen Cr. Station, U.C., 6400 ft., 3 mi. W., 2 mi. N, Hobart Mills,
Nevada Co., Cal.

- 1175 *Tamiasciurus langravii*

5 May 1966

South Farallon Island, San Francisco Co., Calif.

- 1176 ♂ *Ptychoramphus aleutica* testes 5 x 16 mm patches on sides

11 May 1966

Curry Canyon, 900 ft., 3 1/2 mi. E, 4 1/2 mi. S, Clayton, Contra Costa Co., Cal.

- 1177 ♀ *Dendrocapos pubescens* ova 2 mm.
- 1178 ♀ sk. ass. *Icterus galbula*

Wistman, G M
1966

Collection

28 May 1966
6400 ft

Calif.

Sagehen Creek Station (U.C.), 2 mi. N, 3 mi. W. Hobart Mills, Nevada Co.,

1179

Empidonax

1180 ♂

Wilsonia pusilla

testes 5x8 mm. no fat, no brood patch

1181 ♂

sk. oss. *Passerella iliaca*

testes 6x8 mm. little fat, singing

29 May

1182 ♀

Certhia familiaris

small ova, brood patch

1183 ♂

sk. oss. *Sialia currucoides*

testes 8x12 mm, moderate fat
Cloacal protub.

1184 ♀

sk. oss. *Vireo gilvus*

ova 2 mm. no fat

1185 ♀

Empidonax

ova 2 mm, mod. fat, brood patch

1186 ♂

sk. oss. *Spizella passerina*

testes 6x9 mm. little fat, cloacal protub.

1187 ♂

Molothrus ater

testes 5x6 mm.

1188 ♀

sk. oss. *Myadestes townsendi*

ova 3 mm, fat

30 May

1189 ♀

Sphyrapicus varius hyemalis

anul. foll. broad patch
ova 3 mm moderate fat

1190 ♀

sk. oss. *Melospiza lincolni*

ova 3 mm. slight fat

1191 ♀

Chaetura vauxi

fat sublingual gland
ova 2 mm, anul. foll. no brood patch

1192 ♂

"

"

(only one testes)
testes 6x12 mm. fat

Sept 21

1193 ♂

Dendroica nigrescens

mod. fat, testes 1 mm.

Oct. 23,

1194 ♂

Porzana carolina

fat, testes 2x5 mm

1967

(Oct. 23 1966)

Coll. P. L. Fines - permit

10 mi. NW Monterey, Monterey Co., Cal.

1195 ♀

Fulmarus glacialis

no fat, minute ova

1967

Crivens, G. H.
1967

Collection

7 Dec. 1967 coll. P. H. Flues - net

Point Isabel, Contra Costa Co., Calif. elev. 0'

1196	♂	Least	Sandpiper	testes	1+mm	no fat
1197	♂	western	"	"	1mm	" "
1198	♂	"	"	"	1mm	" "
MVZ 1199	♂	"	"	"	-2mm	" "

Jan. 1968

Lunenburg, Marin Co., Calif. D.O.R. Coll. H. Walter

1200 ♀ sk. ass. *Ixoreus naevius* minute ova, slight fat

Sept. 23, 1968

Spokane, Spokane Co., Washington coll. = ^{D.O.R.} M. Weagha

1201 ad. ♂ *Bonasa umbellus* no fat, 2x3 in testes

11

Christman, G.
1943-94

Journal

1965, 1974-1976 Calif: Alameda, Marin Cos.

Christman, J. H.
1965

Burnal

2030 Del Norte, Berkeley, Alameda Co., Calif.

Anne & I moved into this house on August 28th. The next a.m. we were awakened by Wren-tits singing out the bedroom window - side corner of the house. On Sept. 4 saw a Blue Jay fly from across Del Norte to the landing on the 2nd floor, up stairs where I put out the Co-op brand of wild bird seed; then took the bread I had put out. On Sept. 11 I saw one Brown towhee on several occasions on the front "feeder". The bird was in heavy molt about the head. I also put up a tree hummingbird feeder out side front window front.

17 Sept. 2/3 of the red sugar water has been lost out of the feeder. The sun hits this area full blast in the late afternoon. We have seen Anna's hummer in a.m. & p.m. (8-9; 5:30-7) and the 1st dining room - mainly on wires within 10 ft. of the house & in a small tree next door. Several times the bird flew after another hummer. I believe there are two birds out here. Also, 2 Pipilo f. and front. Wren singing from wren-tit - calling every afternoon late & early a.m. Last week saw a raven in yard to SW. also heard a chickadee - no jays recently. Bush-tits in back yard several times.

Last night I brought up brush on to "feeder" landing in the front, 2nd floor - a towhee seen there among dead branches, etc.

25 Sept. 4 towhees feeding on ledge at 7 p.m. two flew to oaks in Gillian's yard. Ravens in fir same time. Heard Downy woodpeckers & house finches in back yard late in the afternoon. Have not seen the Anna's hummer out front for past week.

notman, G. M.
1965

Journal

2

29 Oct.

2030 Del Norte St. Berkeley, Alameda Co., Calif.

Several weeks ago saw all spotted towhees in yard. The ♂ hummer (Anna) with its tongue always out disappeared in early Oct. For about 2 weeks the activity of hummers was nil. Then we moved the "tongue tucker" down to front porch and side of the dining room. Another bird has appeared. It seems to be a male - am unsure. Have not seen 2 hummers at one time. Today Anne saw 2 flying close together - not chasing. Have noticed many (12+) flying high here & N. of campus. Little other activity.

30 Oct. Robins & cedar waxwings feeding on cotoneasters N of front of house in Williams yard.

Nov.
14 ~~Oct.~~ Yesterday & this a.m. saw 2 rufous-backed chickadees in yard. This a.m. 2 feeding several ft. apart in Layon, etc. Also, the first plain titmouse seen - first one in oak in front yard & now in afternoon 2 in trees in back. The ♂ Anna Hummer feeding consistently now. - active during light rain, as was house towhee. No jays in yard lately. House sparrows feeding on front ledge often now. Heard first white-crowns last weekend. None seen in yard yet.

21 Nov. Last weekend I put out a small "tray" over window in bathroom up stairs, put out bird mix and during week Anne noted: white-crowned sparrow, B. towhee and house finch, titmouse (Plain), Song Sparrow - The latter seen last week for first time. Hummer about oak tree in front now - it now feeds every several minutes and in front at 8+ a.m. very active, esp. in territorial behavior; have heard several chases.

istman, Jh,
1965

Journal

3.

Dec. 7 2030 Del Norte, Berkeley Alameda Co., Calif
The tray at the back of the house has a large
chilled now. We put up a small ceramic
planter 6" x 6" round & deep suspended from the
eave. First, put in sunflower seeds. They were
gone over the weekend. Anne saw the plain
tit mouse in it today. Hermit thrushes eat
Cotoneaster berries! Rufous-sided towhees
here but not seen very often. Brown towhees
surpass them; white-drawns also. The
canary mix works better than Coop with bird mix!

1966

~~27 Feb.~~

5 Mar.

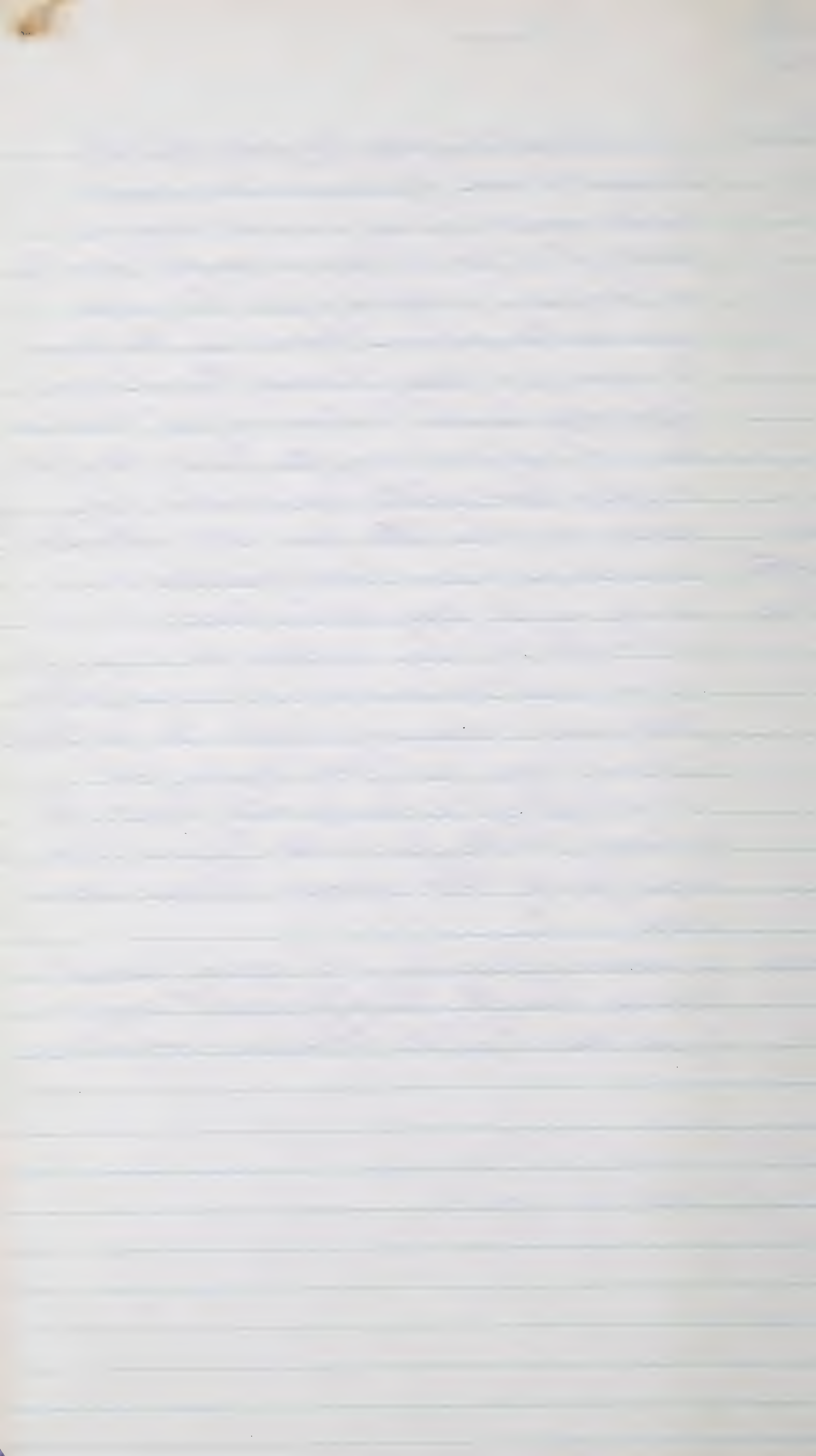
Have seen no Chestnut-backed chickadees for at
least a month. Many robins here & over on
Los Angeles St. today - at least 30. A pair of
rufous-sided towhees in the back, consistently
Today saw 2 mourning doves in the fir to NW,
in front. Were not close together were
investigating the horizontal branches
of heavy clusters of needles. Believe these
were just of this species I have seen
here.

6 Mar.

2 mourning doves about fir again, heard
cooing briefly. Purple Finch or sing in
fruit tree in white blossom needles

Oct 8

First white-crown
yellow-gape



Christman
1984

Journal

22 Sept - From Berkeley to Guerneville, Marin Co, Cal.
and return (48) The trip
takes 1 hr. 15 to 30 minutes & 92 miles.

Over at 4 p.m. to visit Janice
Longdon in a cabin they are now renting
on shore of Tomales Bay. Tide was
coming in all after noon. Saw 1 GB Blue
Heron, 2 Brown pelicans, some
small terns (sp?) a few dark ducks
far out in bay. One double breasted
Cormorant about dark came to shore
& much diving - green sheen on wings &
purple on wings, dark facial skin. The
tail was at or below water level.

Brian and Joel fishing caught some
"bullheads" and one small perch with
several light violet yellow stripes -
otherwise silver. Fog came in about
4 p.m. A group of 20+ crows flew
across bay to hill behind Guerneville.
Saw many turkey vultures on way
over, only one sparrow hawk and
no Buteos!

It will be practical to work out of
this area or adjacent water -
many houses along this area.

There are no cars on the Lucas Valley
road - the first time I've been
on it, much less traffic than
the other road.

Jan. Berkeley Bayfront, Alameda Co., Calif. 1:30 - 2:45 pm
 Anne & I first went to inlet between the
 dump & racetrack parking lot. Several hundred
 canvasbacks. several buffleheads & Western
 grebes & Horned Grebes. Ruddy ducks 1/10 the
 number of Canvas. Coats - 50+ near the SE corner.
 Then to beach S. of University Ave. Again
 hundreds of canvasbacks in numerous rafts.
 A loose open flock of a dozen knats - very
 chunky birds - legs appear short. In an
 area at a bend near Ashby Ave. a large
 many rocks in water with about 100
 starlings sitting on rocks - in several
 situations some were pecking at green
 algae on rocks. Numerous coats & gulls.
 No other shorebirds from Univ. Ave
 to Watergate except perhaps 25 knats &
 several willets. Also isolated scaup &
 3 pintails & a few ruddys.
 At outlet at University Ave. 3 or 5 knats,
 1 willet and three dowitchers.
 Clear, few high clouds, fairly high
 tide - windy.

Wistman
1976

Journal

18 Sept. Caswell Sh. Lake

Arrived to meet my father and about 1 pm.
campsite #42 50 ft from the Stanislaus river.
Stayed till 2:50 pm Sunday. Saturday was
hazy & clear, Sunday warm to pleasant with
high clouds. The park is large with many big
oaks, cottonwoods & a dense understory of
elderberry & ash overgrown with grapes in
many areas. Little bird life: swallows
& robins & redwings flying over. Scrub jay
about 50 crows ± in trees near entrance,
heard magpies & saw molted feathers
only camp birds was a pair of plain
tit-mice. Saw of about 10 valley quail
& several meadow-sided towhees & a
cattontail near the birds seen on the
river.

Walked the trails to SW of camping area —
R-S towhees, S. jay, crows & at the "wood
duck" pond in a dead oak 6 T. nuthatches &
got a glimpse of a small luteous hawk go
thru the oaks. This pond is N-S oriented
parallel to river 1/2 mi W of bathing
beach. Last year at this time it was
full of water & a half dozen wood ducks.
It is about 100 yds long shallow &
rather consistent (1-2' deep) now with
30 ft of water, mud substrate craking

at camp about 9 am. the 19th was standing
near table & a cooper hawk came flying
thru fast 6-3' above ground quiet,
under trees (ash) & over brush —
flapping & tail spread - 10' away

Christman
1970

19 Sept Caswell state park

The river was low 40' wide to about 4' deep at greatest near camp. The bottom is mud to light gravel & appears an ash in color no tules, etc. Sandy shores & banks. Lots of dead trees in the water - cottonwood, mainly & tanish from silt, most with bark. Lots of willow on edges.

Caswell Memorial State Park
28000 S. Austin Road
Ripon, California 95366
Telephone: (209) 599-3810

CASWELL MEMORIAL

STATE PARK

**STATE OF CALIFORNIA
THE RESOURCES AGENCY**



**DEPT. OF PARKS AND RECREATION
P.O. BOX 2390
SACRAMENTO 95811**





BLUE HERON ROOKERY

pond with wood ducks

access road

next to field, pipe lock, no parking sign at entrance to road

CASWELL MEMORIAL STATE PARK

ROAD

TRAIL

COMFORT STATION

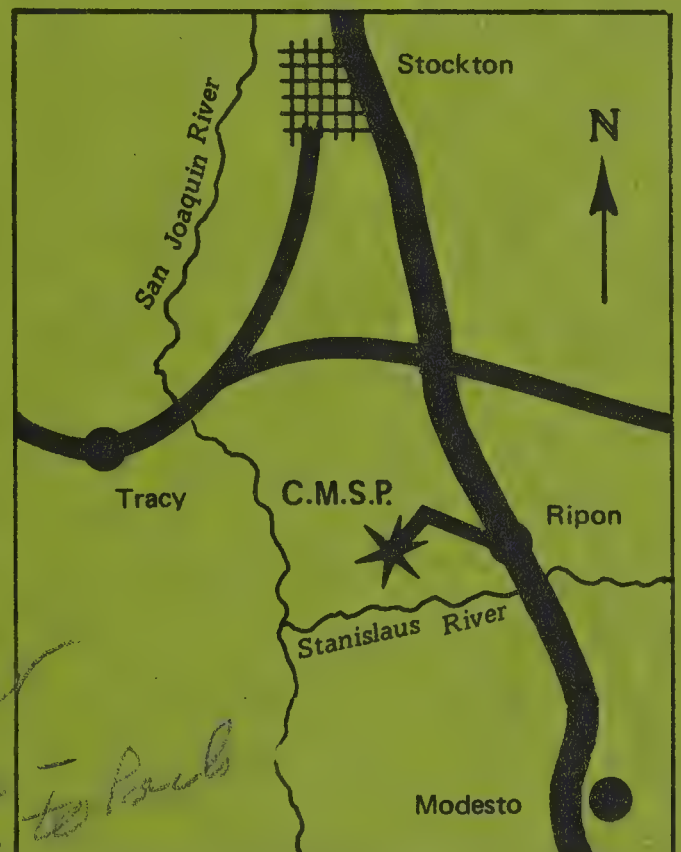
COMBINATION BLDG.

CS

CB

PARK OFFICE

PARK ENTRANCE



*to Manteca
on to 99 & turn
off & drive S. at
Austin Road show
1 mi S of Manteca
2 mi to Paul*

CASWELL MEMORIAL STATE PARK

Caswell Memorial State Park is six miles southwest of Ripon in the San Joaquin Valley. It abounds with wildlife such as opossum, skunk, raccoon, fox, rabbit, muskrat, and the beautiful wood duck.

The valley oak - *Quercus lobata* - found in the park is native only to California and grows best in the low flatlands, although it can also be found in the Coast Range to the west.

The park's 138 acres of valley oak are but a remnant of the large, hardwood forest that once covered much of the Central Valley's river banks and flood plains. Demand for firewood and efforts to clear the land for agriculture in past years reduced the virgin forest to a few isolated stands. Some of the stands protected in the park contain trees more than 60 feet high with girths of over 17 feet.

Minnie Elizabeth Pope, reflecting on her childhood years here in the late 1800's said "I could ride all over the place. We had many points of interest: a biggest oak tree and a tree that had been burned and had a buzzard's nest in it. I would go to see the young every spring. There was a beaver dam, a woodchopper's cabin, a pen to catch wild hogs, and the Indian burying ground. We cut as much as 300 cord of wood a season."

An area of her pioneering family's ranch is preserved in the park. It remains much as they, and the Caswells who bought the ranch in 1915, knew it.

An interpretive display giving the history of the park is at the head of the Oak Forest Nature Trail. The trail winds through fine stands of valley oak and along the Stanislaus River where a tangle of

undergrowth provides protection and food for the wildlife. Outside the oak forest a wide variety of tree and plant life can be found including wild roses, wild currant, and rambling blackberry.

Another trail 100 feet north of the display leads to a point where one can observe a great blue-heron rookery on the park's undeveloped west side, a popular field study area. Visitors should not approach within a quarter of a mile of the herons or they will abandon their nests.

WATER SPORTS

The Stanislaus River, which winds through the park, has a beach and swimming area close to the day-use facilities and campground. Fishing is at its best in the summer when there are striped, largemouth and smallmouth bass, sturgeon, blue gill, catfish, shad, and buffalo carp. In the fall salmon and steelhead can be caught. Boats may be operated in the San Joaquin River, five miles west of the park.

Although valley temperatures reach the high 90's in summer, the shaded camp and picnic areas are often 15 degrees cooler. Family and group picnic facilities are available near the park's interpretive display. Tables and stoves are provided, but because of the extreme fire hazard open fires are not permitted.

CAMPGROUND

In a pleasant wooded area beside the river there are 66 camp sites each with a table, stove, and food locker. Piped drinking water and comfort stations with hot showers are nearby. Reservation applications for the group campgrounds are available at park headquarters.

Christman, G.
1943-94

Journal

1986-1994 Calif: Alameda Co., Berkeley

Introduction

1 June '01

When I retired from MVZ
31 Dec '86 I was determined to
keep my hand in natural History.

So here are ten years \pm
of bird notes:

They were made mainly
from my desk facing WNW.

They are a baseline of the
species & populations for this
specific site.

I was tempted to specialize
in the behavior of several
species. I didn't - so it's a
generalized account.

I paid special interest where
my observation disagree
with "conventional wisdom"

Viz: ♂ House finch coloration
is a factor of age not diet!

OK

Gene M. Christman

Wednesday

Sept 1

Left at 10:30 for the office. The weather was very warm and sunny. I had a good breakfast and was feeling well.

I went to the office and saw Mr. Smith. He was very busy and had a lot of work to do.

I saw Mr. Jones and Mr. Brown. They were both very busy and had a lot of work to do.

I saw Mr. White and Mr. Black. They were both very busy and had a lot of work to do.

I saw Mr. Green and Mr. Grey. They were both very busy and had a lot of work to do.

I saw Mr. Blue and Mr. Yellow. They were both very busy and had a lot of work to do.

I saw Mr. Red and Mr. Purple. They were both very busy and had a lot of work to do.

4

Went to the office and saw Mr. Smith. He was very busy and had a lot of work to do.

Christman, G.
~1987

Del Norte Street, Berkeley, CA



tree-trimming



*from slides in notebook now deposited in MUZ
slide collection*

Mustman
1986

Journal

13 Sept Del Norte St., Berkeley CA
Saw a Stellar Jay in backyard
yesterday - first time I've seen
one of that sp. here in at least a
month. Scrub jays 2 or 3 at most
have been in the yard since.
To day a small flock of Ch. L. Chickadees
shaved up in the oaks & rhododendron

Fog yesterday with mudding clouds
in afternoon little sun. This a.m.
Clear at 8:30 a.m. by noon high
Cirrus. Cool.

This year has been very abnormal -
almost since first of August heavy
fog most every day; much cooler
September also foggy - thus far no
hot weather.

The Lombard Elms started
turning yellow 2nd week of
August. Now piles of leaves on the
street - 80% yellow, 20% green.
The tree in front of yard house is
most advanced in color & leaf
drop.

19 Sept - as above - both Stellar & Scrub
Jay in yard & upper landing.
Several robins about elms - They
were gone in the late summer.
Until some time in June they were
the first in the dawn song. at
least 3 brown towhees at feeding
station one still molting - about
neck. First Song Sparrow at food

5 Oct. Del Norte St. Berkeley, Alameda
 4:30 pm Clear, quiet afternoon
 high 60s - was watering in
 front yard when two
 Ch.-headed chickadees flew into
 Mug, pine 10' high. at 8' up there
 are three nearly mature 3" cones
 & one bird started frantically
 standing upright (body) on the
 cone was reaching under the
 bracts and pulling seed and
 wings out & manipulating
 the seed into the mouth &
 remaining at 10-15
 thusly. dropped one or two
 without removing seed from
 cone. Other individual
 flew into tree. This bird
 followed it.

7 Oct. same - Chickadees tearing
 at Las Cedar cones apart for
 seeds - they are very brittle & shatter
 very easily. For first time in
 ages hard-tails feeding on landing
 with others. Both stiller & scrub jays
 about. Anna Hummers pecked on
 long exposed twigs - under
 canopy of live oaks & dead branch
 of Atlas cedar. Deer, halibut.

10 Feb 87 The "flawless" came out on the
 street down to day. A dry year.
 Mixed flock in past week: 20-25
 Lush-tits and 3 or 4 R-h. chickadees
 and one ♂ towhees and warblers.

list number
987

Journal

1

- 15 Sept. Berkeley, del Norte St., Alameda Co., Cal
3: p.m. sunny & warm 2 piedated warblers
one (♀) in elm, ♂ in Pitorpaeum
- 16 Sept 11:30 am clear warm, Ruby crowned
Kinglet in oak in front
- 17 Sept Clear, cool breeze - elm to NW, 9:30
am
6 house finches perched at top -
quiet, 2 R-c Kinglets, 2 + very yellow
y-green nondescript markings
lots of quiet activity.
Now about 20% of elm leaves have
fallen - green leaves are very ditty
still over 50% green, then yellow
- 18 Sept 11 am Clear warm several nondescript
bright yellow - y-green and some
green - white warblers feeding on
edges of canopy of elms 60' up near
top, methodical flying branch to branch
searching - hidden most of time.
- 19 Sept. warblers foraging in the elms,
not in the live oaks - all seem
nondescript & too far away for id.
- 22 Sept 11 am the 2 local Br. T feeding
with M. dove and 20+ House Finch. the
latter are very frighty. but trees calling
- 25 Sept. still nondescript yellowish warblers
in oaks & elms and 8+ goldfinches
it appears in tops of elms. There are
many small birds flying about the
elms - can't id them -
- 26 Sept. The early am - dawn are very
quiet - usually a scrub jay calls
first. Sometimes doves coming to
the ledge to feed.
- Monarch Butterfly sail past as well as a white

Christman
1987

Journal

2.

29 Sept, del Norte St, Berkeley, Alameda Co, CA
3:35 pm clear, warm, a large black
corvid flew from W, slow deliberate
strokes to the large clump of pines
due N. - landed at top. After a minute
it called a RAVEN - called half
dozen times - low harsh caw, caw,
caw. Perched head above horizontal
& bill open. calls once every 2 minutes
or so. First raven I've seen in
Berkeley since ~~first~~ landed in cedar
several months ago. The 3 caw
3:48 a softer Qua - Qua. Repeated
& blended into quaw between the
2 calls - latter softer, not as loud
and repeated only twice 4:51 dropped
steeply in a sail & flew off to NW
30' over houses - 2 series of several
flaps seen in 200 \pm yds.

Monarch Butterflies saw a dozen \pm
today all in front of house my level -
going NE to SW, slowly -

30 Sept The Fox Squirrel in front has been
climbing out to the edge of the canopy
of the oak and gleaning acorns.

1 Oct a Turkey Vulture soaring to N - high fog -

3 Oct. Clear, almost hot at 10 am on Solano
ave. The lack of rain last winter
is reflected now - the ivy in yards
that are not watered regularly
have a dull amber patina of
dirt as are the still somewhat
elm leaves that have not
yet turned first pale green, then
yellow then tan & fall.

Christman
1987

Journal

3

3 Oct. del Norte St. Berkeley, Alameda Co
in checking out the warblers & birds
most of the new-descript yellow
venter & high of green above ones
are imm. or ♀ Wilson Warblers (unborn
& see a ♂ yellow Warbler)

12:51 a lawny woodpecker flew by
red on head ? no call.

2:38 pm 3 fox squirrels foraging for
acorns on Q. agrifolia in front
yard. Then two came together and
one groomed another groomer was
parallel to branch 2" 20' up on side
groomee was perpendicular to
branch this position for 3 minutes
then groomee moved 8" parallel
to smaller branch & grooming
continued for another 3-4 minute
session. groomed area down
back from shoulders to hip & some
on flanks. groomee alert, groomer
half shut eyes & frequently scratched
with hind leg. "He" worked incisors
up & down. One squirrel was
seen to eat acorn no sign of
storage. Scrub jay has also
marked over the tree, but squirrels
are much more thorough. 2:52 pm
attempted copulation with squirrels.

3:08 p Turkey Vulture circling N to E

Squirrels again: groomer again
gray back in good condition - may have
black penis - no scrotum, groomee -
back is ragged - buff - very different -
These two must be young of year

87

3 Oct. ad. male & f., Berkeley, Alameda Co., CA.
neither looks adult in size or development
no vagumae development in either.

4 Oct. clear all day except for a few stratus
11-1 pm. Flicker called early - at 3 pm
was 84°F in kitchen patio so 90's in the
flat. No bird activity mid-day.

5 Oct. it was 100 in San Francisco
yesterday - hot here until after
dark. This a.m. - like 7:15 first
light & sound - a robin - chuck,
chuck, chuck - -, -, -. Then a
scrub jay. off & on in morning
a good strong breeze with
cascades of elm leaves falling.
don't know wind direction; going to be
hot today - absolutely clear.

The Nature Company flags down the
street showed wind from the NE!

6 Oct. suddenly few oak moths flying
in back & in front. 3 or 4 in evidence?
Today 3rd day of warm to hot weather
- last night was uncomfortable. HOT.

7:28 pm dark for awhile - crickets in
back & in front. There is also a long
rasping, monotonous strigilation call
in front which I have not heard before.
It has cooled down considerably!

7 Oct. heavy fog early. Seeds from the cedar
are pin-wheeling down & seem
to reach 40' + to E from the tree.
One squirrel feeding in Oak.

8 Oct. fog & cool breeze same squirrels
working over the Quercus agrifolia
feels like a winter day

- 9 Oct, del Norte St, Berkeley, Alameda Co, CA
fog till 1:30 pm. A few high clouds,
cool. A few oak moths out and
crickets chirping at night.
Usually things have been very
quiet birdwise of late. Why?
Today, no warblers in the elms
5 H. finches in same elm but not
coming down here.
- 11 Oct Went to Caliente yesterday - scattered
clouds. Late afternoon - there = heard
crows in distance & mockingbird singing
far off. I have had - home by 2 pm
clear there; here high clouds to W and
fast moving stringing thins from S
going N over hills.
- 12 Oct. Low fog cloud till noon; clear
some high clouds E to W at 3-4. cool
breeze = the young squirrels are
feeding in oak again.
- 13 Oct 12:07 P fog This past week the
elms are suddenly significantly more
bare except for one directly across
the street. The trees and ivy in yards are
dirty from lack of rain. Also less bird
activity - no more warblers.
- 15 Oct Clear after a.m. fog cool breeze
4 or 5 oak moths flying, squirrel in oak ^{still} feeding
- 23 Oct. Sprinkles for several days, 1/4" rain this
a.m. Oak moths still about
- at 4:30 pm it got darker and ~~it~~ ^{it}
rained heavily .2 for 20 minutes
patches of blue to N & W. The drops came
straight down & were large. Then
the cold front passed & clear by 5:30

Nov

- 11 ~~Oct.~~ del Norte St., Berkeley, Alameda Co., CA
9:15 am. clear. a large dark hutes
type flycatcher rather low, sailing NW.
- 12 Nov one circling - Turkey Vulture to S.
- 13 Nov. Rain in the night, a constant
rain til about 9:30 a.m. then slow
clearing rain = 65!
- 16 Nov. drizzle last night, everything wet,
stopped at 8:30 am. cloudy (100%) all day -
1-2 pm lots of bird activity 90% robins &
waxwings. I have elderberries in fruit in
backyard. also pyracantha now done.
fox squirrel in very top of elm (w)
up street - eating buds - ?
- 17 Nov. Rain began last night before
midnight & continued until about
noon - a steady, consistent light
rain. out all day
- 18 Nov. 9:30 am clear except for a few
whispy cumulus. a dark hutes sp.
to NW fairly high, soared with no
circles or flaps, direct.
1 pm most of day, cumuli, slight
breeze, cool, some high clouds 10-80%
cloud cover. No bird activity, nothing!
no jays, no robins, no turkeys.
Probably this is a high pressure regime
a few high clouds to NE.
What a difference from the 15th
when there was so much activity!
- 19 Nov. scattered whisps of stratus till 1 pm
then clear, 4- haze to W. The plane
trees at North Berb. Lilvany are almost
leafless, some variation in amount, several
have new green leaves! less 5%

87

19 NOV.

~~Oct.~~ 19 Nov. 20, clear, on to afternoon.

20 Nov. Tan cloud cover, out at 7:45 for breakfast, a few brief moderate showers; breakup of clouds with cumulus fluffier heavier closer to W. 9:00 am dark hands (horizontal) of warm gray & mist! The dead leaves flew! Then 40 min of good rain mod. heavy at first then tapered off. Light rain till 12 - sun out and bits of blue sky by 1 pm 2:30 pm squirrels, towhees doves & the juncos feeding 3 pm 80% clear 3:56 p. large cumuli & incipient thunder heads floating by on display & building up over hills to N, E & S.

The pollen cones ($2\frac{1}{2}'' \times \frac{1}{2}''$) from the atlas cedar have started to fall - in the wind yesterday am 21 Nov. clear, sparkling in a.m. at dawn the doves feeding outside of the open window and a robin "chattering" down the street. Later accipiter (?) over - it flew (robin, i.e.). This perching in prominent trees by robins, jays, flickers makes sense - they have a good view & can detect an accipiter, etc where as a predator has to come up on them. 9:40 a.m. - now a few small coils of cumuli heading south! 11:02 am a few fluffy cumuli to W in marine, and over the hills to NW expanding slowly into swirling nothingness. The wind direction has not changed yet - another storm ^{coming}

Christman
1987

Journal

8.

- 21 Nov. del Norte st., Berkeley, Alameda Co., CA
This high pressure! Clear, almost
cold, still, a slight breeze at times, all
is quiet except for a few people and
walking in pairs or ~~fr~~ singly running
how bird activity is zero. 11:10 am a white
butterfly flew past! No monarchs this
past week +. 1:19 pm (57°F down-
stairs & outside) more cumuli to S
but holding together now. Bright
sun. banks of cumuli to S & W.
- 22 Nov. out & down stairs all day -
finished ("Vita" V. S-W) mainly clear
with - 10% stratus & a few small
cumuli. Doves early and cool.
- 23 Nov. Clear, cool in a.m. 9:20 am a band
of white-gray stratus W-NW sloping
down to the S; high on N. edge. The yellow
leaves are gone now - just some dead
brown ones, among the bare branches -
individually gray; but the terminals with
a sienna tint. 1+ The cloud cover
past, clear at night full. -
- 24 Nov. at 9 am, stratus - maculosa clouds
- thinly over the entire sky. By 11:30 am
a band of gray stratus from the W. it is
cool. Almost no bird activity besides
doves very early and a quiet scrub jay
diving into the lower part of cedar.
At 12 pm a band of heavy stratus come in
from W-NW with clear behind; at 2 an over-
cast of Cumulo-nimbus, colder & a breeze.
- 25 Nov. Clear, cold & clear
doves before sun rise
scrub jay called at first day light
- no
robins
or calls

Christman
1997

Journal

9

- 25 Nov. del Norte St, Berkeley, Alameda Co, CA
(to Palo Alto - two turkey Vultures over
San Leandro area - one law)
- 27 Nov. Birds to birds. cold & clear; clouds in
by 3 - doves in at 4:50 = 4 individuals
- 28 Nov. clear all day no bird activity.
- 29 Nov. low cloud cover. about 7-7:30 am
doves in & first robin singing. Again a
squirrel in oaks lines on top of elm up
the street eating buds (?). There was
a chase in cedar about 11:30 am, at
least one was a juv.; the other? but
think it was too. At least one tearing
about canopy of the oaks - still trying
to find small acorns?
- 30 Nov. light rain at dawn, doves in
feeding, light wind making the trees.
A flock of 35+ robins and cedar
waxwings flew N to S at 1:25 pm in
a constant light rain. 6:50 pm rain
stopped - total rainfall at 0.68
- 1 Dec. rain during night? = 0.20
scattered low clouds, no more than 20
% blue. A few short sprinkles -
- 2 Dec. 2.8" rain last night. Low clouds
in a.m. One robin in top of elm.
- 3 Dec. 9:20 am clear with alto stratus &
a few stray cumulus. a band of c-cumulus
off to far west 10-1:30 pm cumulus
clouds low over hills, 75-80% cloud cover.
Cordoneses Creek Park = turkey Vulture, law,
white-crowns under shrubs.
good breeze from S-SW.
- 4 Dec. heavy overcast, a few very light sprinkles.

Mistman
1987

Journal

10

- 4 Dec del Norte St., Berkeley, Alameda Co., CALIF
could see values (dark & light) of clouds
9:40 a.m. - consistent rain, no breeze
(There was wind last night). with the
rain a uniform gray cover. fairly
heavy until 2:15 pm - now sprinkles.
3:45 pm storm breaking up. areas of blue
sky. A huge bank of clouds to SW - blue gray
deep - with medium value pines & fluff -
5 Dec. rain began about 4 am light, until
9:30 & stopped - low hanging clouds now.
few sprinkles, began clearing at 2:15 pm
Rain yesterday = .55; today = .19
6 Dec. windy last night, rain started
5 am - hardest so far this season, but
not pouring - intermittent SW wind.
rain stopped at 10; cloudy; - open at
1:20 pm Rain = .94
7 Dec. Two quick thunder/lightning rain
storms: 2 am + and 4 am. plus the
am. at 10 was clear, cool - everything
wet & quiet. a thunderhead at Mt. Tamalpais
The rain last night = .22
10:45 am the first high cirrus feathering.
11:17 a.m. now a bank of thunderheads, on the
coastal hills in Marin Co - S.F.; rest thin high -
1:22 pm complete cloud cover + cumulus about
8 Dec. started raining about 1 am. to 1:50 am
= .84. Complete cloud cover, all day.
9 Dec. rain started 4:05 am - light,
tapering off at 8:30 a.m. Light rain,
low fog like clouds till dark. = .23
at 4:10 pm mist down to top of cedar
up the street - rain almost stopped.
- on & off at night.

Christman
1987

Journal

11

10 Dec. del Norte St, Berkeley, Alameda Co., Cal
~~under a heavy rain~~
low cloudy & drizzle; at noon light
rain as of 4 pm = .20"

11 Dec. clear (band of high clouds to S)
and almost cold. Everything is wet.
11 a.m. 54°F, a N breeze - light
intermittent. Up street a house with
rain puddle - two yellow breasted
- throated small birds - ♂ gold finches
or a warbler - ? very brief sighting
4:26 pm. Clear, very slight breeze -
much activity today esp. towhees,
warblers & the flickers. only 2 or 3 robins.
Band of high clouds to NW.

12 Dec. wind came up during the
night. Clear, strong N wind,
things drying out. Here no cedar
waxw. or robins - saw 1/2 doz.
robins 1/2 mi. away. Very quiet for birds.

13 Dec. clear, cold, windy. The last
2 or 3 days gulls flying over to NW;
9 at 9:48 am off & on all day gulls to NW

14 Dec. 90 - 50% cloud cover - high
no wind, cold. 9 (+?) doves at 6:50
am. Last week I saw 3 fox
squirrels in the oak. Have not seen
the 2 3/4 grouse juvs. lately. Temp = 50°F
1:20 pm thin high clouds.

15 Dec. complete cloud cover at dawn
light rain by 9:30 a.m. 10:25 am a few
robins flying to E., one landed in top of
~~cedar~~ up street. one flock of 20 waxwings
very erratic flight. 10:40 wind coming up,
rain real light. 2:30 pm cold rain with
some wind

Christman
1987

Journal

12

- 15 Dec. del Norte St., Berkeley, Alameda Co., CA
Eight small clusters of new leaves
at end of branches in *Q. agrifolia*,
5-9 bright green leaves each in
NE & N part of campus.
- 16 Dec. Rain & COLD before dawn, not
heavy, tapered off at 10: a.m. at noon 48°F .
2:30 p.m. windy, colder, showers,
not heavy. Only a few small flights
of robins & waxwings; doves & turkeys.
Temperatures are in kitchen patio; at
3:35 p.m. = 46°F
- 17 Dec. 44°F , clear, no wind. 9:03 a.m.
one Fox squirrel on ledge and 3 in the
atlas cedar new door - one chasing
another up trunk and down again. -
Is there a winter breeding period?
One Fox squirrel for one hr has
been sunning - back against the
main trunk on a limb in sun facing
E. ~~at~~ (10 a.m.) tail up against. 4:08 p.m.
a squirrel feeding on buds (?) in top
of Elm up the street - 5' from top!
- 18 Dec. at 7:50 am a few high clouds, by 9 low
clouds hanging in fast, to complete cover.
11:20 am fog (?) breaking up, high wispy
clouds - little bird activity. By 2 pm
complete cloud cover - low 53°F at 2:37 pm
Light rain some time after 6 pm.
- 19 Dec. clear, cool, a very slight breeze.
1:00 pm breeze at times, only several robins
nothing else! 55°F . 4:11 pm. many tails
out of W. all together a dull, cool day, painted
saps, but saw the activity of doves, several
turkeys, the squirrels didn't come by, but robins sang in a.m.

Christman
1987

Journal

13

- 20 Dec., del Norte St, Berkeley, Alameda Co., Calif
8:30 am clear, except for a band of thin
clouds on W horizon; breakfast that
band of clouds is overhead - high cirrus
preceeding it. 2:30 pm mockbird song; 54°F
- 21 Dec. Fog, cool. 2:04 pm fog squirrel
feeding in top of elm - first to S. this side
of the street, 8' from top. drizzle at 4:50
heavy drizzle - fog at 8:15 pm
- 22 Dec. overcast, cool at 7:30 a.m. with a
thin band of blue to W. By 9 a.m.
clearing, 85% clear, N wind. The
landings was wet from drizzle last
night. We have not had a real storm
with heavy rain yet this year.
11:22 am heavy cumulus clouds getting
high in the Marin Cobles & N. By 1:11 pm
these clouds dispersed. Fluffy cumulus
overhead going S - SE. Windy ^{last night} 26 rain
- 23 Dec. clear, cool, a bit windy.
- 26 Dec. return from Palo Alto, 1:15 pm
50°F. in P.A. 25th 3 ~~Three~~ Vultures
law and neighborhood. Today - Hayward
= 2 singles; Oakland hills = 2 = 4
T.V. are winter residents! Clear, cool.
- 27 Dec. 9:30 am cloud cover & a brief light
sprinkle. Very light rain until 7:30 pm
then slightly heavier. light rain at night
- 28 Dec. scattered heavy clouds including large
thunderheads to W. scattered showers
12 mid night + between rain showers
a short, mellow "who" repeated in
slow cadence, not sharp or harsh, not
very loud. did not gain speed, not like
sneech auls I have heard

rain hair =
red on outside
blue inside
of arc

Christman
37-88

Journal

14

- 28 Dec. del Norte St., Berkeley, Alameda Co., CA
rain up to this evening at 6 pm (.96)
- 29 Dec. Rain at night, at times rather
hard (perhaps harder than for this
season), sprinkles this ~~evening~~^{a.m.} at
11 a.m. = .59 of rain. Clear to 5 W = 4:00^{pm}
- 30 Dec. Clear, slight the variable winds
from N. a few high stringy clouds to S
puffy small cumulus overhead &
haub of clouds thru Golden Gate.
overall 50's
- 31 Dec 90% fog at 8 am, cleared back to
90% blue sky at 10 a.m. huge haub of
fog over hills to E. almost cold. Noon
high clouds to SW. cold. by 1:45 pm high
clouds as a band SW to, almost, NW,
a new breeze. No birds other than 4 doves
at 7:30 & the towhees-
- 1 Jan. 1988 5 wind overnight. Overcast
sun filtering thru at 9:30 a.m. 11:13 a.m. lower
overcast, cold, stronger breeze, variable
direction. This is reputed to be a weak storm
but the wind! Blew from N and S.
- 2 Jan. rained lightly 5 am \pm = .12" cloud
cover, cool. at 1:50 pm 46°F and strong
N wind, most of pm major branches tossed
4:12 pm more, heavier wind, Rain by 6:30 pm
- 3 Jan. light rain until 10 a.m., overcast,
at 3 pm .56" of rain, not so cool.
- 4 Jan rain at night & into a.m. not so cool
The wind died out after 4 a.m. No wind at
11:30 a.m. at noon = .59" rain ^{tapered off} by 4:30 pm
- 5 Jan. low fog, no rain - very wet. Scattered clouds
80% cover. after noon broken cumulus & a few
sprinkles of huge, wet and cold rain drops

Wistman
'88

Journal

15

- 6 Jan., del Norte St., Berkeley, Alameda Co., Calif.
fog at 9 am, by noon 50% fog & rest
blue sky slightly warmer. 1:06 pm couple
high cloud cover with light wispy fog.
- 7 Jan. Fog, opened a bit at 10 ± - heaviest
to the W & then closed down again
noon - high clouds / spotty fog, some
sun. from 2 pm on ± low fluffy
nimbi sailing SW past my window.
Rain started at 4:19 pm, by 11:30 = .19"
- 8 Jan. overcast, comfortable, no wind,
no rain, no birds. light sprinkle at 4:05 pm
- 9 Jan. overcast; 56°F. = (T) of rain
- 10 Jan 9 am low mirky foggy. noon passing
high fog from W & high clouds above.
afternoon - variable clouds 60% sun to 10%
- 11 Jan. (light rain - mist last night) clear
at 7 a.m. cool, no wind. by 11 a.m. a few
high clouds W-NW.
- 12 Jan clear, cool, no wind. a few high
clouds at noon; 3 pm 80% high cover
cedar waxwings & robins in elm to SW
feeding somewhere to S. lots of activity
- 13 Jan cool & clear, no wind. Banks of fog
or clouds to NW to SW. Cedar waxw &
robins in neighborhood; this is mass
bird activity in weeks. 10:15 am high
clouds overhead to SW to N. Filtered sun
at 10:50 a.m. The first starling dive
seen in neighborhood. 12:30 pm -
no more cedar waxwings or robins -
all gone. only one dove in elms.
- 9:30
am ±

Christman
1988

Journal

16

- 14 Jan. del Norte rd., Berkeley, Alameda Co., CA
scattered clouds at various levels.
by 9:30 am. general overcast no bird activity.
- 15 Jan. rain during the night - started
about midnight. rainfall - .55
Overcast in forenoon, comfortable
Miss bands of robins with & without
water wings.
- 16 Jan. Heavy rain last night 12 - 8:30 am
= .47". broke up at 9:30 to scattered
cumuli. Just before 10 went for walk
around block at N. end of upper Elms
ave; scrub jay & towhee (B.) & mocking
bird in yards that were open with - 6'
shrubs, etc. Stellar jay in small grove
of redwoods & firs. One yard had
a tangle of vines & shrubs - English
sparrow & white-crown sp. singing
and a Raven flew over head.
- 17 Jan. Rain started about 11 pm & continued
rather consistently, medium, somewhat
Rain stopped about 3 pm, but no clearing -
Rainfall 1.03"
- 18 Jan. Scattered clouds, cold. clouds from
NW till about 3 then from W; clear at dusk.
- 19 Jan clear, cool, slight breeze. at 2:30 pm
a band of high clouds to W; at 3:40 overhead
busy almost all day -
- 20 Jan clear all day, almost warm in afternoon
- 21 Jan. clear, 10 am., few high clouds from NW
very high pressure 2:59 pm squirrel in
hale W. elm - 6' from top canopy - 60' + high.
4:22 still in SW elm & another in elms up street
half way up from SW trees to N tree. Two months
of winter yet! This weather - precursor of spring

Christman
1988

Journal

17

22 Jan., del Norte St., Berkeley, Alameda Co., CA
Heavy wind last night. Clear now
except strings of very high clouds - (5%
almost none). 2pm almost a complete
thin overcast of high clouds. So far this has
been a fairly quiet day. No flocks of robins
(just singles) or wax wings.

23 Jan a.m. = a few high clouds and haze on
the horizon.

* 25 Jan (in P.A. yesterday & today till 3 PM)
Clear warm - into 70's in Palo Alto
a few high clouds & haze in South Bay
4:10pm squirrel feeding an elm bud
in top of - up the street.

26 Jan. very diffuse sun with high clouds
There are shadows and cool.
see notes on elm trees - buds opening
will be goldfinch time soon!
Buds are out on almond tree w of
house & one cluster of the first flowers
continued all day. By 4+ some almost
high cumulus clouds - didn't warm up ^{much}.
Squirrel still eating elm buds up the street.

27 Jan. high clouds - to MVT 8 am to 1:30 pm.

3: pm clouds thicker 67°F very quiet.

4pm up the street squirrel feeding on
newly opened buds of elm 30' from terminal
branch - must be 1/4" diam branch but holding
on to at least 2 branches. Does this show
winter - stave off starvation food? No
feeding in oak by squirrels of late the
same "clippings" have been seen. ^{4:14} Two
squirrels up the street. ^{4:19} squirrel feeding
in top of elm this side of St. to W. 5' from top

* in Palo Alto, Anne's yard - a painted lady butterfly

Christman
1989

Journal

18

28 Jan., del Norte St., Berkeley, Alameda Co., Calif.
~~overcast, little breeze, about 60°F, a few~~
robins flying about. 2 Squirrels feeding high
in the elms

29 Jan. Rain during the night. Several showers
in the a.m. continuous cloud cover.

11:30 a.m. now a general rain, some
breeze. Both jays & doves with some calls.
Rain at noon = .88" 1:37 p.m. has been
getting darker - now raining again. This
is one pulse of rain after another - this
one is hardest so far today. 2:12 p.m. rain
let up & lighter - uniform clouds. 3:40 p.m.
still light rain, but heavy clouds with a
patch of blue to W - clouds moving fast. 4:30
discrete clouds (cumuli) moving fast to NWE
4:50 p.m. squirrel feeding in tree across the st.
1' from terminal. Overcast again. Rain = 1.05"

30 Jan. clear, by 9 a.m. high clouds from S
about 35% cloud cover, not at all thick.
noon = fewer high clouds; activity level
has been low this a.m. Much of day a
squirrel has been feeding in elms up the st.
4:30 cumulus to N & high c. hands to S.

Very few robins today 4 in the past 1/2 hr. 4:55 p.m.
3 flew to SE high over a high pressure day no
activity

31 Jan. clear, cool. 1 Squirrel in NW elm first
investigated the pile of dead leaves - branches;
then 15 min. later it disappeared into it(?)
is this a squirrel nest? 12:30 p.m. two
squirrels out of this "nest". Big line of
cumulus clouds off to W and NW.

1 Feb. clear in a.m. band of clouds to the S & SW
Small puffy cumulus clouds over head.

Quistman
1988

Journal

18A

31 Jan. Visit to Hans Pesters at Sonoma
Alameda Co., Calif. One hr. drive
from Berkeley. He lives $1\frac{1}{2}$ mi. N of
village of Sonoma on Kilbuck Road.
address at box #1050 on W. side of
Creek. a large white house, 2 stories
against a hillside, grassy orchard in
front. Bedrooms down stairs, a deck
& "L" shaped upstairs. a long living
room, beamed ceiling, fire place and
W wall is rock. A refractory table
- really old. His pictures - large oils &
acrylics everywhere, old wood prints -
kitchen - breakfast nook - the latter is
library - shelf and collection of Caudin-
fau succulents. A table was doing
a Mt. Quail in acrylic also a small
studio in back against wall - pot bellied
stove. An eagle (golden) on an easel.
No organization in the studio & as
simple as possible. Old furniture, small
bundles of feathers - hawks, owls, eagles,
ducks. He played "guess-it" with all kinds
of mammal skulls, plants & feathers. an
area in back area for his 2nd yr. Peregrine
(it was in a wire enclosure in front
yard when I arrived at 3:02 pm) it is
part placii very dark. Game photos. Went
in his old VW with Pereg. over to Vallecitas Rd, to E
a mile or so, & turn, then a locked gate onto Rd
to W. a short distance, W. turn up hill - some
small steep ponds - ducks - including & hooded
Mergansers, wood ducks - W. yellowlegs. on up a
hill & golden Eagle of towers of power lines. On
to a river - almost dry to E across head

Mustn't
1988

Journal (Visit with
News Peeters)

18B

31 Jan. Sunol, Alameda Co., Calif. afternoon
Lots of talk, as we crossed head of the
reservoir (San Antonio[?] Res) Many big
cumulus clouds, dramatic lighting,
with deep shadows and vivid bright
green sunlit hills. Most of this area
is several private ranches with Angus
— Zebu type cattle. at top end of dried lake
some huge sycamores — hills mainly
bare of trees & overgrazed. Many
Citellus beecheyi — grass only several
inches high. H-P: many eagles here.
went up far in road to another reservoir
— small — almost dark. Flew the falcon,
very dramatic, high-low, flew past
me & about me. Saw a very dark bird,
thought it was a Gt. Blue Heron without
my glasses — it was a 2nd year Bald
Eagle! A nesting pair in hills to SE.
On way back: several herring
gulls — flying low along road in almost
a fluttering flight. Also a coyote
ran down a fence saw at a crest of a
hill. Dinner with H-P and wife =
cut-up beef.

Christman
1998

Journal

19

- 1 Feb, del Norte St., Berkeley, Alameda Co., Calif.
4:05 pm more & larger cumuli. a squirrel
has been working in elms all day & now
one is high in elm across st. to W. One Fox S.
following another in elm to SW - trying
to mount? & both on same limb into
the Eugenia tree is there a nest there?
- 2 Feb. Clear, cold. 4:00 pm 2 Fox S. in
tops of elms up the st. 4:50 pm larks & towhees
and Song sparrows feeding. Goshawk calling.
- 3 Feb Clear all day, frost on grass at 7 am
- 4 Feb clear & cold. at 10:30 am a NE breeze
with a bit to it. Clear cool no breeze in afternoon
- 5 Feb 10 am clear cool some high clouds
to W. 3:10 pm entire SW sky overcast,
filling high clouds to NE. no wind.
2 Fox S. in elm up street; one across st in elm ^{at 4:45 pm}
- 6 Feb. Clear, cool - a few high clouds
especially to the west { there are 3
Fox S. = Fox Squirrel - consistently -
I hope I think the population is same as
the summer - 2 adults and 2 imm.
- 60) 3:00 pm long filling high clouds. Not very warm
- 7 Feb 6:29 am jay calling & robin singing
from down the street - SW. Clear, some
frost about early. easily trapped the
macho Fox Squirrel - ♂ at 10 am let it
loose in John Kinkle park 1/3 mi. away to
NW. - a squirrel size Havahart trap.
12 noon - 13 gulls circling high to NW.
when I came back from the drive one of
the yearling squirrels was on landing
& went 15' down power line & into Pittosporum.

Christman
1998

Journal

20

7 Feb., del Norte St., Berkeley, Alameda Co., CA
3:30 pm a nice spring day - in low
60°F. no breeze. 2 squirrels feeding
in elm across st. to W.

8 Feb. clear, hazy about the edges. I
have seen no squirrels this a.m. The
pyracantha up the street between side
walk & st. still loaded with red berries
a few high clouds W-N. a very cool day.
2:42 pm Fox S. feeding high in elm across
street. Since trapping a noticeable
diminution of squirrel activity in
general & on landing specifically (except
for late juv. immediately after
which was noticed.) None seen up the
street today. after 3 hazy to W only
whiffs of high clouds.

9 Feb. by 8:30 am a low thick fog was
building up overhead - fog had come in Bay.
at 9:30 on Solano Ave fog back in low
but 75% open above. at House at 10 am
clear, cool. Washington hand tail model.

Yesterday I put out 2 handfulls of large
Sunflower seeds out the studio window.
They measure 15 mm x 10 mm x 4 mm. The
Fox Squirrels especially like these but
apparently few birds do - too big?
I used these big ones to bait in the Fox S. I
trapped. So far I haven't seen the Jays
cart off loads of them.

4:30 pm Fox S. in NW elm - out of that oak

10 Feb. 9:41 pm clear, a good breeze from N(?)
10:27 am a Fox S. on N part of ledge - the end
of its tail was very ratty it saw me - I gave
no reaction it went down the power line &

Christman
1988

Journal

21

10 Feb. ~~del Norte St, Berkeley, Alameda Co, CA~~
and went into Pittosporum. Several
(4-7) small groups of gulls flying low to N
& disappeared - no seeing the
breeze has died down a bit. 15 minutes
later the Fox S was back - same
reaction - is this the same squirrel
that I trapped? 12:15 breeze from N
and temp. in kitchen patio is 70°F
+ bought new bag of SAFEWAY WILDBIRD MIX

5:15 pm Fox S. in elm 2nd up on W.

11 Feb. clear, a good stiff wind out of the
NE. Open flocks & individual robins
flying about, as well as in tops of tall
trees. A few flocks of waxwings. a scrub
jay in briefly. Bright green flowers (?)
on some branches on elm across St to
the W. Fox S in top of this tree also. 12:49 pm
a hawk flew by low to W - a cooper? •
it was. Saw & robins up the St. dispersed
low - hawk continues between tall trees
to NW. One white butterfly

12 Feb clear, cool, no wind, very hazy in
afternoon.

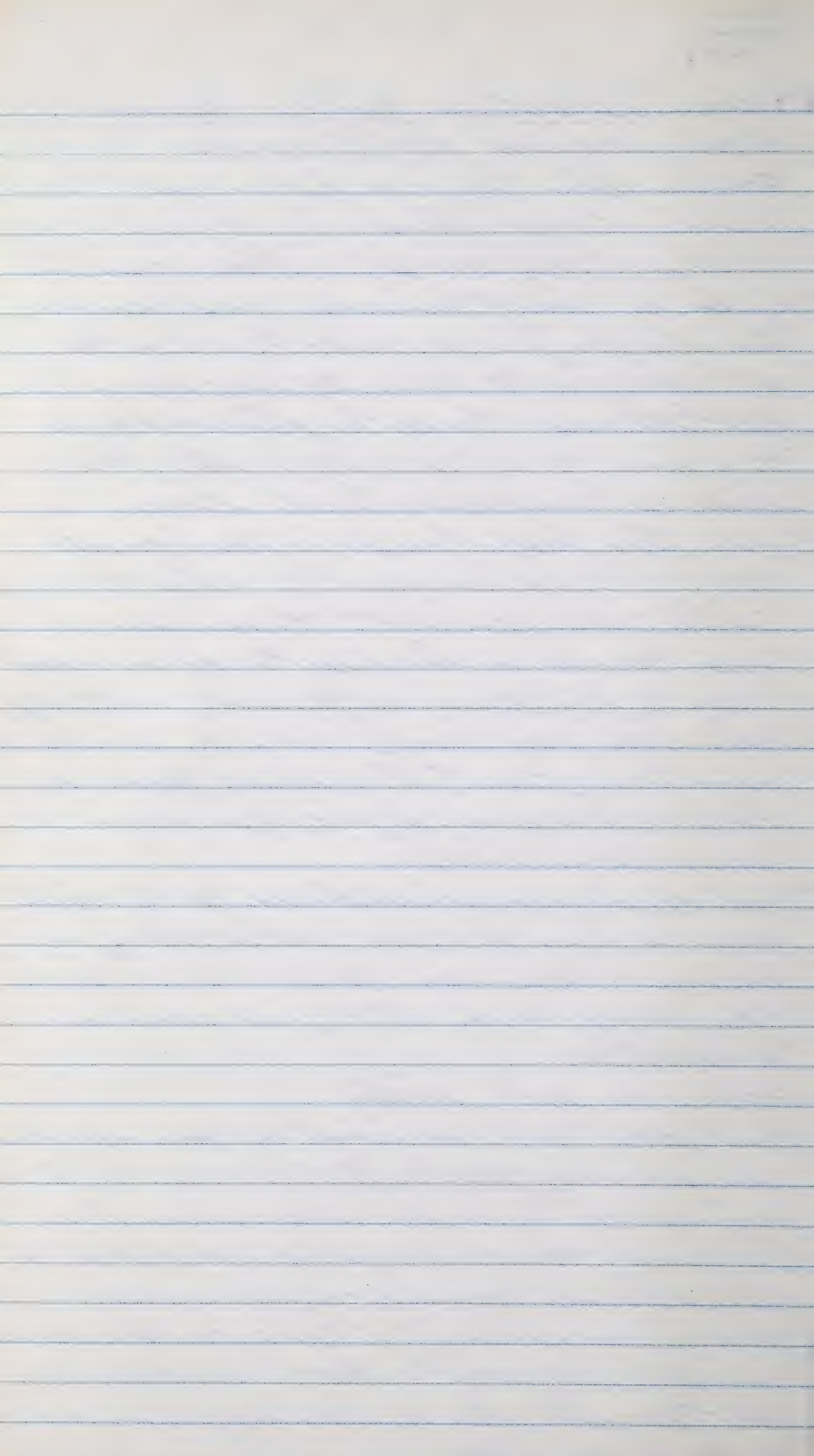
13 Feb. clear, still & chilly. Only one jay, quiet
a.m. 8 am caught one of the younger
Fox S. & released it at N. Berk Library
1/4 mile + away. 9:45 am one Fox S in elm
across the St to W. Was the Fox S I captured
the one that has been up the street in
the elms? 10:30 am a Fox S in NW elm (S part
half way up in green part). 11:06 a white
butterfly. 12:15 Fox S in W elm

Christman
1988

Journal

22

- 14 Feb., del Norte St., Berkeley, Alameda Co, CA
Clear, no wind, slightly warmer 1:55 pm
Fox & S in W. elm this a.m. I checked - there
is a 10'-15' gap between the W side of the
NW elm - telephone pole & lines and the
W. elm in front of the house (and across
the street. This means a Fox & S. in the
N.W. elm has to come to my yard to
get to house - thru the almond tree
to house to W (Lessel's) & into this
cedar to front oak & the W. elms.
- 15 Feb Thin high clouds in each quarter.
Fox & S = 2 on branches 6" ± next to trunk
in the cedar (SW), at 8:48 am. Haven't
seen the one in elms up the St. in several
days. W high clouds in afternoon - a little hazy.
- 16 Feb clear, cool breeze from N., some gusts
bend tops of trees! A few small flocks of
robins & waxwings flying. A few doves &
pair of house finches.
- 17 Feb. Clear, except high clouds to NW which
passed over by 10 am. Cooler today, no
breeze. 4:30 pm high clouds S-W-N & looks
like fog off coast. 68°F; hat cooling.
No hand tails
- 18 Feb. Clear, cool, windy.
- 19 Feb clear, cool no wind 1:04 pm no robins,
no waxwings, towhees tho. Fox & S up the street
in elms - the first I've seen since the
trapping. 1:08 one in top of W elm across the St.
and first elm up St. across St. - two on main
trunk. I was pissed off at these animals because
they were so aggressive in eating bird seed in the
fall - they could hardly be scared off. They are
ob. though at a distance.



Christman
1988

Journal

23

20 Feb., del Norte St., Berkeley, Alameda Co., Calif.
9 am clear, not cool, clouds on W horizon
10:10 am no more robins, one dove in -
very quiet, even B. towhees inactive. High
whispy clouds to W & NW. Fox S. up street -
coming down from medium height. 10:18 am
a breeze - many dead leaves falling
from oak. 3:37 great streamers of high clouds

21 Feb. high clouds and hazy, cool. a scrub
jay landed on periphery branch of oak &
leaves fell. After 11 am long strings of
high clouds passed from S to N
across my western view - thicker in
the late afternoon. 4:32 Fox Squirrel in
W elm feeding on elm fruits.

22 Feb. Fog - the break in the weather - a
high pressure area has been solidly in
place for weeks now - hopefully, will
have some more rain! 12:30 pm the
fog left about 10:30 am. High clouds, still
cool, but a different 'feel' to the breeze
from the SW. Some loose dove feathers
on landing: see dove and sharpshinned
hawk - 4:12 pm cloud cover: 50% the high
clouds have coalesced & thicker, slight breeze -
4:30 clouds thickening to SW, sun is diffuse
The almond tree immediately SW of the house
has been in blossom for a week & in
new leaf for a week. The plum trees are
out in pink flowers for weeks.

23 Feb. Fog, more dead leaves on oak - nearly
half. By 11 the sun out, but hazy with high
clouds. 3:30 pm more diverse types of clouds,
more diffuse sun. By 4 fog started forming to
a general cover with the sun filtering through

Christman
1988

Journal

24

23 Feb., del Norte St., Berkeley, Alameda Co., CA
There is so damn much noise in this neighborhood! Cars first, second sirens F.D. & P.D.; the people next door with a leaf blower. My hearing is not impaired but one hears just so much.

24 Feb. Fog, cool at 12 very hazy clear
Painted most of day. 4:05 11 wainings,
2 doves, 5 robins in top (doves highest,
then robins) of W. Elm.

25 Feb. Foggy, sun out by 10:30 am -
hazy sun. noon filtered sun, high
clouds. 1:30 clouds thicker, but not darker -
very diffuse shadows. 3:33 pm clouds
lower and darker - and 2 Fox S in oak -
none at landing to day. 4:42 storm
coming in?

26 Feb. High clouds - variable amount of
blue, very comfortable - first for long
time. The tube feeder up on Las
Augustas St (S. side of St. & house - top floor
under roof) is empty. This house was
tena cotta & they painted it off white with
brown & blue trim - and has been for
sale. 11:15 a good breeze came up - it
has been quiet. Leaves on oak falling.
12: sudden cooler & variable breezes
1:01 pm fewer high clouds as earlier, now
high mists, cool, but pleasant 66° F.
4:28 pm darker clouds, a few patches of blue.

27 Feb. light rain early this a.m. - things
wet and overcast. Pyracantha still in
red berries up the St.

27 Feb. ~~Mark~~ - returned home from Palo Alto at noon.
Left 27 Feb about noon.

Mustman
1988

Journal

25

- 29 Feb. ~~Mar.~~ + ~~Mar.~~, del Norte st., Berkeley, Alameda Co., Cal.
The last two days have been variable clouds - mainly cumulus & some huge thunderheads. Sat. night (27th) some thunder & lightning and some heavy, brief showers. Light rain this a.m. in Palo Alto. Now, at 12:54 pm overcast cumulus with some sun. No robins, no other birds after 9-9 hawk/goldfinch event.
- 1 Mar. at 7 am light rain. breaking up of clouds - some blue at 9 a.m. Some wind. Anne gave me a 2 compartment feeder - it has no perches. Rain - over weekend & last night = .56"
9:58 am clear except for several fluffy cumuli building over hills to NW.
Variable clouds, N wind, coolish. 3:30 pm
Fox & Squirrel in NW elm
- 2 Mar. clear, quiet. The Plane trees - on Marin st & about library are 15% out in leaf. The double row of elms on Hopkins st (off Grove st to Sutter) are bare, except for 5 which are in fruit - and only two as extensively as NW elm here. Several bands of high clouds N to S to the W. late pm clear
- 3 Mar. Yesterday clear; today - clear some high clouds to W. Noon - high cloud overcast, cool around edges. 12:45 pm 2 Fox & Sq. feeding on samaras in NW elm a yard apart.
- 4 Mar. overcast - fog? Noon - still overcast seems like fog for there are tiny breaks - a slight breeze. Activity is almost entirely with goldfinches. For weeks the street and side walks have been strewn with samaras

Christman
1988

Journal

26

- 4 Mar., del Norte St., Berkeley, Alameda Co., CA
both singly & entire clusters. Fox Sq.
in S part, low; in NW elm - entire clusters
fall from limb. (2 Fox Sq. in that elm)
The fog opened about 1:30 - there are
some wispy high clouds between the
breaks of the fog - the ~~at~~ sun shines
through. 4:23 broad overcast high & lower
fluffy stuff darker - I don't think it's fog.
- 5 Mar. overcast, medium drizzle. a nice
quiet (except for a brief robin dawn song)
soft morning. Sun out at 1 pm though
still 90% fog. 4:25 pm most of fog blew
E. strings of high clouds & haze to W.
- 7 Mar. high clouds but essentially clear
cool - 58°F at noon.
- 8 Mar. clear, almost comfortable. 1 Fox Sq. in NW
elm - clusters of samaras are falling.
- 9 Mar. clear, a few wispy high clouds, 58°F at 10
a.m. rather quiet. Feeding at the landing
is now skulky doves & Br. towhees. Have
not seen house finches lately. Flocking
hushtits is over. Fox Sq. from W elm into oaks -
was one in NW elm.
- 12 Mar. Samaras falling (even in the back patio)
First cluster of leaves out in top of W elm
across the St. Clear most of day, a few high
clouds. Fox Sq. in NW elm; this a.m. Saw it
jump from top of utility pole to S part of
same tree - at least 10'.
- 14 Mar. got up at 5:30 am, shaved & at
my desk - 6:17 a.m. a bat flew over!
Nygatis sings - over top of W elm. 6:30 full
light - fog overcast. 8 am clear tho cool.
10:45 am Fox Sq. in oaks - feeding on flowers?

Christman
1958

Journal

27

- 15 Mar. del Norte St., Berkeley, Alameda Co., Calif.
8:22 am scattered fog, cool. One (the
short tailed - ad ♀?) in feeding on
large sunflower seeds; another, a
yearling(?) in NW elm feeding on the
dying samaras.
- 16 Mar. Pittsfordum at NW side of house
seems to have lost its opened orange
fruit and - especially the E tree is
out in white flowers! 3:34 pm 62° F.
Clear all day - almost spring like
The apple tree is beginning to bud out
- 17 Mar. fog dispersed 9:30 nice spring
day. More leaves out on those elm
sides of hawks - E & N sides.
- 18 Mar. Clear (fog in bay head fog horns)
Dawn song = 5:28 am 8:15 am Fox Sq in
NW elm eating samaras - ~~on~~ road under
this area is littered by dropped samaras
11:am 60° F quiet - rather hazy about
edges, slight breeze -
- 19 Mar. Clear same high thin clouds to W-NW
at 11:15 am a large flock of gulls high
to NW circling & getting higher & moving
N and to NE. Migrating inland. 1:30 pm
bit hazy with high clouds to W from S to N.
2:12 pm more high clouds.
- 20 Mar. clear, mild first *Tupulidae* adult
10:10 am feeding: 2 doves, 1 Br. Towhee, & ♂
(came in first from Pitts.) & ♀ House finch -
feeding on floor; "Sun - is" coll.
first spring day. 2 Fox Sq in oak, active, at 6 pm
- 21 Mar. High clouds & patchy fragmented nimbus
from SW to E. cool - patches of sun
These clouds passed, almost clear before

Christman
1988

Journal

28

21 Mar. del Norte St., Berkeley Alameda Co. CA.
now high filmy clouds, a bit warmer
4:04 pm, Fox Sq. has been foraging in E part
high in the oak. what is it eating? - pretty
well obscured. 4:34 pm Fox Sq. now up
trunk in w. elm. a breeze: samaras are
softly flating east from the two elms.
still there are few goldfinches, trilling
& a weeb sang.

22 Mar. Clear except for bands of mid
level clouds 15-25% cover. comfortable
This is a quiet season the land species
are not! Clear at noon; band of
clouds to W. at 3:30 pm with a slight
breeze - a very quiet day in every way.
4:07 pm Suddenly from N to S bands and
isolated clumps of minibus clouds from
NW. The quality of the air has changed.
4:31 pm clouds moving to E. The western
horizon is very dark. Six flowers on the
apple tree. Saw waxwing flock 2 hrs. N.

23 Mar. cloudy ledge etc slightly damp from
drizzle The two Fox Sq. in at landing. #1 I
think was a young one last fall & feeds in
elm up st., etc. #2 comes down the middle
drain pipe & is usually in oak or w. elm. Both
are looking very ratty with rough spots on
rillage - molt - ? #2 is missing part of tail
- distal ? 9:45 am great Fox Sq. chase
across the landing. Clear briefly then
cumulus clouds - 4:46 pm clear, breeze
& a Fox Sq. feeding in oak (E. side)

24 Mar. Clear all day all pines have new leader ^{branches}

25 Mar. Clear. 1:51 pm Fox Sq. feeding near top of oak

26 Mar. Clear, warm 8:45 pm 5 long

Christman
1988

Journal

29

26 Mar. del Norte St., Berkeley, Alameda Co., Calif.
tailed parrots flying down Salano
ave. squaking loudly. Going to be
a hot day - up into $70\frac{1}{2}^{\circ}\text{F}$.

27 Mar. Clear, windy cooler, in mid 60°F pm

28 Mar. Clear, still windy (N) and cool.
Elms in front - in "aspect" are 50% leafed
out. On Fresno St. near Salano many
elms still pale green in samaras. The
has died down somewhat. Low 70°F at
on Salano ave.

29 Mar. Clear, little wind. haze on horizon

The apple tree is $\frac{1}{2}$ fully out in leaf
& even less in flower. Pittos has a few
white flowers. There have been a number
* of small birds flying from N into & out
of the oak. Some were c-b. chickadees
and due to thick foliage can't identify
- bush-tits? frequent trips = feeding
young. There are far fewer birds
feeding on ledge now than formerly
esp. tan herons fewer trips. Doves have
reduced down to several pairs - no
jays, just odd hawks. after noon high
thin clouds. 4:30 high clouds thicker to W &
more of a breeze.

30 Mar. Clear, cool, N wind. noon heavy
gusts with entire branches moving.
noon - Fox Sq. I think the short tailed one
has bare spots on sides of shoulders
to skin a year & a half ago one had
bare tail & bare & rump - it disappeared
along with several imm. - was & is
this a contagious mange?


Rustman
1998

Journal

30

31 Mar., ~~del Norte St. Berkeley, Alameda Co., Calif.~~
Clear, cool, N wind.

1 Apr. Clear, warm, no wind. noon-high clouds in bands to WNW. 1:30 pm the first monarch butterfly flew over house & between trees to NW. Fox Sq. spent some time in late pm in the oak. New "clippings of oak twigs on the steps - 4-6" with leaves - Squid

2 Apr. Clear, slight breeze; a few bands of high clouds W-NW and a good chunk of horizon (up) is hazy with high clouds. coolish. ^{here} I wake up at about 4:30 am bright - a nearly full moon! and robins were singing - it was bright as dawn!  DAYLIGHT SAVING TIME

3 Apr. fog, cool early it seemed several layered 10 am heavy 4:30 up hill. 1 pm still foggy a bit of a breeze. Fox & Sq. in oak on exposed side of edge of canopy - eating the dried flower catkins of the oak. great rafts of dark fog are drifting NE and the tops of the trees waving in the breeze - light. Fox & Sq. in W. elm across St. du St. are a number of small 3" \pm branches of elms with new leaves. 6:43 pm fog getting lower - a very quiet day. 7:30 drizzle Fog all day

4 Apr. clear, ~~to~~ mid 50's 50°F house cold. 10:45 high clouds off to W-NW. 2:45 pm a small light colored butterfly or moth about top of the oak - an oak moth? 4:55 pm a great Fox & Sq. chase down trunks of near W elm. I still think this (only 2 of 4 left) is mother & son!

5 Apr. clear, occasional gusts of wind noon - suddenly a breeze & a raft of apple tree petals blowing about. also a few samaras flash.

Christman
1988

Journal

31

5 Apr., del Norte St., Berkeley, Alameda, Cal
about - few if any in near trees - where
from? 7:20 pm Sun, a few degrees above
the w. horizon. Very quiet out there
no calls, no movement.

6 Apr. up early, clear, cool high clouds to E
around to S & SW. 8:35 am one in NW elm -
high & one at house - ^{scrub} - Jay. High clouds much
more extensive. Fox Squirrel the smaller
one with a thin furled tail is a ♂ with
enlarged scrotum. [6:52 pm a bit thicker
high or medium level clouds, cooler.

1 pm wind coming up. 1:20 pm a new
Fox squirrel - a large (♂?) with good pelage
and good tail. Is this the ♂ I moved out
to ~~the~~ palm double park? Clear, bright
with increasing wind after 3 pm.

8 Apr. Clear with a few high clouds to, coolish
& occasional winds same gusty. 1 pm.

2/3 of w. is covered by great bands of rather
thick high clouds; light breeze. Fox Sq -
two came in to feed today - a large ad.
in good shape - a ♂? And a smaller
one - the first year one? at 4:05
pm one in W. oak 8' from top - seems
to be manipulating leaves or branches.

Also in afternoon something got at
my sack of bird seed on front porch
& gnawed holes & spilled out food
(Audubon mix) & ate lots of sun
flower seed. 4:45 pm This has been a
quiet day. Starting to organize these notes
& write things up. 4:50 one flying high to
NE elm - on top. 6:45 clear, calm at this
time with a haze to w., just a few high clouds.

Christman
1988

Journal

32

9 Apr. del Norte St. Berkeley, Alameda Co, Calif.
clear, breeze, warm, early. At 10 am
= 68° F in shaded patio. 58° F in bedroom

10:47 am strong wind 2:25 pm Fox Sq. very thin,
very "ratty" pelage & little hair on end of tail
- is this the short tailed one. No bare spots in
the fur. 2:44 another Fox Sq. larger, longer
tail, thin, fur not as ratty & large scrotum.

2 tipulids in house today - no infestation

10 Apr. clear, no wind, lots of high clouds to
S & W. Record temperatures about
hay area - hot after dark

11 Apr. clear, going to be a hot day, no
high clouds. The last several weeks:

The only consist user of the saweay
mix & throw out are Fox Sq. and

* | especially mammie doves. No one
has come to the hanging feeder since
I repaired it & re-hung it.

No rain since early Feb. it's a drought

* | year. How will effect the avifauna?
This is not a typical year. How will
the insect food hold out?

1:50 pm a light breeze - Gilliam's chime
is making noise. Hazy about edges, still
no high clouds. 1:45 pm 72° F in bedroom.

10:15 pm a bit of a breeze - 71° F

12 Apr. 8:30 am 61° F fog & chime wind

Fox Sq. 10:30 am one 15' from top of NW elm -
it was stripping bark from 3/4" diam. branch
- was backing down limb holding it in
mouth. also seen carrying a mouth
full down limb part first. Leaves too
thick to see where it was going.

10:44 am varying levels of fog, few open spots - ? clouds. ^{high}

Christman
1988

Journal

33

12 Apr., del Norte st. Berkeley, Alameda, Cal
10:58 am windy - no chimes. 11:08 sun out - brighter, but cool. New Fox squirrel - large, in good pelage, full tail. in feeding with m. dove at 11:53 am. / 3:30 pm high bright fog, shadows and a stiff breeze. 4:39 guests to make Williams chimes really ring - this is a Solaris, & believe, & from Tamaroco, down the St.

13 Apr 5:20 am first robin at a distance, local ones by 5:45 am still dark except for sky glow - also Br. towhee chimes merrily in a while how many robins singing - 10-12 - I don't know
6:22 am first stellar jay NW. Only 3 robins singing at 6:23. 6:30 can make out trees, etc.
First dove coo. 6:35 suddenly very quiet - on robins off in distance - once in a while a Br. towhee which came in to feed. 6:41 quiet, a scrub jay with one squeal. 6:50 lots of "tick" calls from a robin in yard 40 yds NW. back in house at 8:15 am - a light rain ! 8:45 let up; 3 Fox Sq. in - a small well pelaged one; a big one in good shape - and an ad ♂ testes not evident thin tail. He chased a dove feeding, & I think one in NW elm. 9:50 am sun out a bit variable clouds (different layers).
2:45 pm cloudy & windy - no rain since am
5:30 pm light rain again.

call Luis Baptista CAS = energy recognition
= see works of CURIO

also Hans PETERSEN, H. = "woodland beetles"
(canids?) N.K. Johnson & H.P. and a pub
by BLM on woodland predators = Steven
Jones - STEVE Bailey CAS = ^{no has max} published his
thesis on canids

Wistman
1968

Journal

34

13 Apr., Del Norte St., Berkeley, Alameda Co., Calif.
I asked Hans P. about using models
of hawks with birds: yes, it works
for half hour - jump, etc. then nothing, he
used a stuffed herring gull in a tree.

14 Apr. cloud cover 100% ; .10 of rain, all night
next. 11:07 am Fox Sq. tail very ratty -
loss of hair - same plumage; eyes are
squinted & an opaque light blue.

11:30 am a big ♂ in good condition. 12:30 - 1:26
pm. a good solid light rain. Is the Fox Sq.
in bad shape the ad. ♀? The others may
come down with what it has. The "Mange"
spread. 2:22 pm clouds are breaking up
somewhat. few patches of blue. 4:32 pm
Fox Sq. one of smaller ones - good plumage and
full tail except end is thin & long hair.

clouds moving south. False observation
rain in early afternoon = .10

raining again at 7:15 pm. short & light

15 Apr. clouds - low or fog. 58°F at 10 am

Early am = ^{Fox} Sq. ligad. 11 am nearly full
sized, good plumage short tail - I think
this is the imm. from last summer.

afternoon - windy until about 7:30 pm

16 Apr. fog, very quiet at 6:30 no robins
singing

17 Apr. fog breaking up by 8:30 am a bit windy.

cool. afternoon clear, cool windy. The
Fox Sq with really bad plumage have spots
and eyes nearly completely closed is in at
2:11 pm it's almost completely blind, scratching
a lot - real then 7:55 the bird has

restman
1988

Journal

35

17 Apr, ~~del Norte rd, Berkeley, Alameda Co, Calif~~
died down, and great sheets of fog
are softly coming in.

18 Apr foggy clouds. 8:50 am light rain.

2 Fat Sq. in; by noon variable clouds 50%
blue. clouds lowering about 6:30 pm. a light
sprinkle at 7:28 pm.

19 Apr rain all last night. .60" rain by
8 am. Same wind. 10:30 - 11 heavy rain
with wind & low dark clouds to NE. This is
a good soaking rain - good since
we have had none since late January!

11:58 am raining hard again. The rain had
stopped by 2:30 pm. cloudy (100%) till sun came
thru a bit at 4:22. One Fat Sq. in in am - the
short tailed yearling. I doubt if the six one
will make it thru this storm. 7:33 pm - there
have been few sprinkles; now raining

20 Apr scattered & dark cumulus - & nimbus
clouds, a T of rain last night. at 8:15
am at safe way in Salano in about 5
parrots flying about the block with
Michael's Leg-Walkers & Frank Norlop books
they were green, fairly long tail & yellow
on head - calling loudly & harshly.

Heard a strange call several times today -
a simple "qua" high & rather harsh - repeated
2 or 3 times at long irregular intervals.

Rain in at 6:30 only higher clouds, late

21 Apr Clear early; then high thin stratus; turning
annulus to NE, become cooler.

22 Apr cloud cover, cool, breeze. 11:52 am the
rain started - by 3 several short heavy light rains
but much wind in clouds. Duvon pour in late aftern. = .37.

Christman
1988

Journal

36.

23 Apr., del Norte St., Berkeley, Alameda Co., Calif.
early am; huge thunder head to NW, with
scattered clouds here - rain last night =
light sprinkle at 9 a.m. 10:45 am caught one
of the smaller squirrels & took it up
Spruce St. 3/4 mile. Two came in earlier
an almost full grown ♂ (one caught) & a
big stud ♂. Haven't seen the sick one of late.
This big one is in N. valley. By 4:30 to clear.
Since trapping Fox Sq. the big ♂ came in
and also the short tailed smaller one.
Clouds going S.

24 Apr fog in am. Misc clouds p.m. High clouds
at 8 pm. all food gone put out at 7:30
within a minute B. tanagers in feeding.

25 Apr clear with partial high cloud haze.
Put out the link (hanging) with
fat - suet - corn - meal outside the
studio window - with the chickadee
model. Hummingbird model reinstated
at 10:26 am light sun. 10:39 am 2 Fox Sq.
in oak showing their big chase through the
cedar - one with end of tail gone, both
light colored between ears; both in good
shape at 8:30 the big ♂ on landing &
didn't chase it, set trap & it didn't come
back.

at El Cerrito Plaza yesterday at 8:30 am
3 Brewer blackbirds chasing a raven 25'
up over parking lot & near buildings.

4 pm trapped a Fox Sq - took it to Tilden
Park - 2 mi. The other, the other day was +
than a half mile. 4:33 pm huge band of high
clouds west to almost N. haze to S; few high c.
overhead

Quistman
1988

Journal

37

26 Apr., ~~del Norte St., Berkeley, Alameda Co., Cal.~~
just few high clouds - warmish.

27 Apr. MVZ till 3 pm cloud (high) thin at
first till heavy at 4 pm with heavy breeze.
By 7 pm heavy fog coming in -

28 Apr. cumulo-nimbus clouds - 100%
cover. some dark; heavy rain - no rain,
no drizzle. caught the large Fox Sq. & took
it to the native area in Tilden Park - so
by theory only one left - the smaller
are in cedar-cab. 4 nearly clear / few cumuli.

29 Apr. low clouds 7:15 am rain, light at
7:18. 8:36 am. Fox Sq. the smaller, short
tailed one. This should be only one left
of the original group - its going after
larger sunflower seeds. The pelage
is in good shape - not dark between
ears. rain = .43" ! it came down heavily
just before 8 am. Mist lifted now can see
bottom of clouds - 100% cloud cover. 9:38
Fox Sq. in this is almost full size darker
between ears. good pelage, tail not fully
furred, but full length - it looks like
the one taken to Tilden yesterday the nat
as large perhaps. came ~~down~~ up N drain
& no stranger here! Scattered cumuli till
about then clear - all with good stiff winds.

30 Apr. clear and windy. Some cumuli at 9 am.
10:40 am. Brown towhee, doves & House
finches feeding together within a foot of
each other. After 10:30 am cumulus clouds
building up rapidly 11:45 more than 50% cloud
cover. very cool and windy. 2-3 per leave
to Palo Alto, huge thunder heads in hills behind

Christman
1989

Journal

38.

30 Apr, del Norte St, Berkeley, Alameda Co, Calif
Fremont-Alameda Co, warm in sun, but
heavy wind. Cool evening.

1 May up & out early, less wind no clouds.
45 min. walk about Anne's neighborhood
several robins, surprised there was not
more. a number of House Finches, a few quiescent
scrub jays; loud crows in tawera, one
hullock Oriole & lots of doves. Mocking-
birds in full voice. Robin in Berkeley at
1:30 pm. (in Fremont a blackbird (prob.
a redwing) harassing a turkey vulture).
I am going to start writing up the notes
from this study. 3:45 pm filled the hanging
feeder - small seeds 1/2; mainly black sun-
flower other half - small amount of millet
& on deck same fat-soaked french bread.

4:10 pm Fox Sq. in oak high w side/movements

2 May Clear, but high clouds to NW, cool. High
by 10 am almost complete cover by clouds
last evening two squirrels running
about oak one was carrying green elm
leaves up major branch of oak, is it building
a nest in oak? Clear in evening.

3 May a few high clouds, but clear. There is a large
Fox Sq. nest near top of oak. FEEDER =
4" down (slightly below top hole) on the
sunflower side. Only house Finches
use the feeder on a regular basis.
impressions: jays still using oak some-
times; tawhees far fewer times & feeding
at edge more often - does this reflect on
nesting - ? no larks for a long time &
no chickadees. 6:45 pm wind, heavier high clouds,
chimes

Wistman
1988

Journal

39

3 May, del Norte St., Berkeley Alameda Co., Calif
7:00 am sunflower side of feeder (1/3 millet
, etc) down 1 1/2" to just under 2" at 6:45 pm

4 May cool, heavy cover of high clouds which
dulled sun; day was essentially clear.

* Sunday May 1 - first day new green
leaves out on the lindan tree near the
front steps. at 3:35 pm sunflower seed side
of feeder 2 1/2" of food left. filled it on Sunday
at feeding on other side = house finch. 3:40 pm
clear & windy. 7:58 very windy, cold, few cumulus
Didn't see Fox Squirrels today

5 May nearly clear at 7 am by 8:30 scattered
cumuli, few thunderheads, cool. Small
slim squirrel at 8:39 am. 12 noon = 70%
cumuli & stronger wind, no chimes yet

> Two weeks ago \pm I put out under over-
hang on a wire a rabbit log with holes
1/2" with suet, and fat-corn meal. as
an intiser a chickadee model - no reaction
so today put out house finch model on it
2 pm bank of high overcast from SW & now
extends nearly to N. sun still out and wind
is heavier. going to be murky soon. a storm?
diffuse sunlight. 6 pm a trace of rain. 90% cloud

6 May small, short tailed Foxgoulds at 8:11
walking back from arboretum = western Tanager.
two squirrels in at 8:12. 70% clear; few high
clouds & cumuli about hills cool. Things were
damp at 6:30 a.m. neither of the sq. seemed
pregnant - and they built a nest! 9:22 am
90% cloud cover of all strata - low to neighigh.
no shadows - 11:35 am the first drops of rain. NO
it started raining at 6 pm

Christman
1988

Journal

48.

- 7 May, del Norte St., Berkeley, Alameda Co., Calif.
heavy rain last night .70" at 8 a.m.
two Fox Sq. in at 7:30 am set trap. Caught
the short tailed smaller one, released
in parking area at Tilden Nature area, as
the others - ran into a grove of live oaks
Very cloudy with a few openings to W. with
a few sprinkles in forenoon. Sun out 12:39 pm
Food in feeder down to level of top perches,
scattered cumuli all after noon & evening
- 8 May scattered cumulus clouds. 10:15 am
2 fox squirrels chasing around & up & down
trunk of cedar tree. I have relocated a
number of squirrels the 6th - were 2 which
came into feed. This a.m. only one, after
the last trip to Tilden. This means one
that has not come in to feeding area.
- 9 May layers of clouds high & low, sun at
a bit at 8:30 am. 1:20 pm high thin clouds,
with haze on the edges, a breeze, 68°F
3:08 swallowtail butterfly. No monarch B. as yet
filled feeder
- 10 May a beautiful clear, warm day; a few cumulus
high clouds at 3:36 pm 75°F. a small Fox Sq.
- 11 May clear - at 7 am pleasantly cool, will be
hot. Fox Sq. in a.s.b. a big fox Sq. made
little noise coming down drain pipe. 11:18 am =
70°F. another smaller, Fox Sq. 4:34 = 79°F,
7:15 pm huge whips of high clouds radiating
outward from the W. 7:30 pm 70°F
- 12 May clear mild - 10% fluffy small clouds.
until 11 am small fluffy cumuli in bands. 1:07 mid
level stratus - fuzzy edges, lots to W. some wind,
dts fog - really soaked in by 2 pm. 3:26 light drizzle

Christman
1988

Journal

41

- 12 May, del Norte St., Berkeley, Alameda Co., Calif
4:20 pm rained briefly. Dried up by
5:15 new sparkling whirly, cumuli at 6:30
pm. a new Fox Sq. a young one, small
and a beautiful tail. Sam = T.
- 13 May Morning clear, comfortable,
a band of high, wispy "wave"
clouds & a band of lower nimbus type
to E. 9:08 - caught Fox Sq. at 7:30 am;
new another in cab and the small one
on landing. Took Fox Sq. to tilted N.A.; at
12: a very thin non-ad. in feeding.
- 14 May clear warm; quiet bird day -
a new shiny Fox Sq. larger one at noon.
Lots of bees next door & flying about.
12:50 pm yet another Fox Sq. tail is not
full.
- 15 May early am. patchy fog, clear by 8:45 am
10 am 2 Fox Sq. a large one, & half grown
one both in good pelage. and one in
cedar! "Native abhors a vacuum".
at 10:10 am 69°F fog bank to W. Fog whips
to NW and more over hills to NNW & N. Put
out HOM - young Fox Sq. 4-5' from it
feeding & checking things out - only reaction
is lots of tail flicking. also House finches
& towhee feeding - HF then flew 10:37 am
ad. Fox Sq. on landing 4' from HOM pays
no attention. The HOM sure hasn't worked
yet. No jays have seen it - not about
now. 10:50 more fog to NW-E
- 16 May up at 6:30 am - out at 8 for B.
light rain from 8:15 to 9:30 solid nimbus
cover. two sq. in feeding. 11:31 heavy drizzle.

Quistman
1988

Journal

42

16 May, Del Norte St., Berkeley, Alameda Co., Cal.

11:53 am now a constant light rain -
two young sq. feeding air landing
& they tails over back, out in rain.
rain stopped about 1 pm = .70", still
cloud cover. Trapped a small one - to
N Barb. Library 1/2 mile \pm away.

17 May after cumulus clouds to S. at 6:30
am. clear by 8 am. Caught another Fox Sq.
to back yard behind wills large branch at
Madison St. and still another half grown one
where are all of these sq. coming from?
at 6 am heard a crow. 12:36 pm. A cool windy day.

18 May clear - warm all day, over 80 in early afternoon.

19 May the young Fox Sq. came in at 6:30 -
trapped by 8:15 am took it to John Vinkley
park 1/3 mi N. by there are no squirrels
left in neighborhood.

20 May clear & warm at 7 am. 4:21 pm
Thermometer in package indoors: 104°F and door
83°F

21 May clear, warm 8:38 am Fox Sq. in feeding
- a large one with good furry tail, along
with several doves, House finches, a towhee
and a plain tit mouse.

at 5 am still dark first robins singing far
away, by 5:30 these close joined in
the lawn chases. The mockingbird
joined in but was almost drowned
out by loud robins. all was quiet by
6 pm full light but no seen. Fox Sq. back
at 10:52 am - it all too familiar with escape,
etc to be a new one. busy all afternoon. 8:20 pm
high clouds from S.

Christman
1988

Journal

43

- 22 May, del Norte St., Berkeley, Alameda Co, CA
at eight am. a little fog toward bay. But
an overcast of high clouds all day. in Vallejo to 3
- 23 May clear 60 is, a streamer of high clouds,
N to S. off to W which is expanding this
way intermittent breezes from W. Put
food in feeder - was almost empty.
1:50 pm one Fox sq. moving branches in area
of nest in top of oak - few minutes later, it
rained a tremb. hazy clouds at 3;
clearly 5 pm; pleasantly cool - 68°F at 8:22
with a light breeze & one robin singing
and sharp chuck calls.
- 24 May early = few clouds & whiffs of fog,
after 10 am clear. 3:40 chunks of fog
coming in, breeze - a cool day. at 8:03
pm 52°F; 68° in doors; fog streaming in, windy.
- 25 May early foggy, by noon ~~the~~ scattered
clumps; light breeze & clear outside 60°F.
- 26 May cool with light scattered low & high
clouds, 10:25 am = 57°F. a Fox sq. in Pittos.
at 9:30 am - only one about nest and
it is shy - am sure its one that
returned. 11:32 thin high clouds, hazy, 58°F
breeze. Fox sq. back. 7:30 pm bands of high
clouds & bright sun. 8:02 pm dark mid-level clouds
to W.
- 27 May clear but for high thin, streaks of
stratus? Then about 11 am patches of fog
began coming in. Sun between patches of
fog. huge fog bank to W. Soaked in by fog 6:30 pm
7:15 pm fog horns started.
- 28 May woke up a little after 4 am - a light
rain. The robins started singing about

Christman
1988

Journal

44

28 May, del Norte St., Berkeley, Alameda Co., CA
this time & continued for about an
hour +. The mockingbirds started
about 5:22 am. at full light the robins
stopped. The rain stopped about 6.
Gey 9 a drizzle falling. 6:45 am two
Fox Sq. in feeding - one was new.

9:58 am light drizzle at 9 & heavier at
10 am. 4:PM - off & on drizzle. 7:09 pm broken
clouds & blue - windy. 9:05 a bit of afterglow
- very windy 8:30 - robin singing

29 May, clear & cool with a few small cumuli
from N to S - so mild. There seems to little
if any interactions between species at
landing/food even with Fox Sq (which
one was in feeding early this a.m.). The
exception is the scrub jay which
harasses by "dive bombing" alone.
This afternoon at 7 pm the mockingbird
& house finches are the only one singing.
60°F outside

30 May 9 am cool, clear, quiet, no wind.
at 9:51 am 54°F 10:04 a swallow flying
fast about tops of elm trees - think it has
a square tail. 2:25 pm 62°F outside, 64°F inside

31 May same filmy high clouds, fog to S & a few
whisks over head. 54°F outside. 9:19 am another
house swallow over tops of elms - prob. Cliff swallow
almost complete high cloud cover 56°F outside
Fog in bay 7. Lots of H. finches, Doves, etc.

1 June high fog & clouds some midlevel clouds
- haze overcast. 4:35 high overcast, 74°F outside
what looks like the first oak mite flying over
top of oak.

Christman
1988

Journal

45

2 June, del Norte St, Berkeley, Alameda Co., Calif

6:50 am fog low among elms; burning off by 9 am. clear to N = Fox Sq. from S part of NW elm - jumped 4' feet to utility pole & down - this is where I suspect a robin nest is 9:17 am sun out to E but again fog 95% SW - NW. 9:28 Fox Sq in SW elm going for oak. On the 31 May I had a dead tree 15' high removed from behind deck in front - this was a "highway" for sq from oak to Cedar & Misadessa. What now Fox Sq.?

9:47 am Fox Sq 30' up in cedar on 4" limb - ramp against trunk facing NE in the dull sun, hunched down, tail over back - have seen much of this in past especially in winter 9:55 Fox Sq. on limb to SW (it will be over here in 15 minutes). 10:17 am just little patches of fog, 57°F outside. 8:04 pm some high & thick clouds too. There is a quiet period before dark - with few birds - (only H.F.) 8:47 pm getting dark 59°F - 2 raccoons went thru from N to S. over fence by trees.

3 June at 6 pm overcast with fog - several patches of blue to W. at 7 indications of high clouds by 8 complete cover of fog - 8:54 am 58°F outside

5 June clear at 6 - small high clouds at 8 & by 9 high & mid level cumuli from WNW - cool = 54°F outside. The feeder seems to be the house Finches only food source - they came in early & stay late. They prefer the feeder to the landing but also feed on 'the ground' with the doves & towhees.

Christman
1988

Journal

46

6 June, Del Norte St., Berkeley, Alameda Co., Calif.

Left Palo Alto surrounded by small patches of blue and heavy dark cumulus & thunderheads, a few showers of huge cold rain drops. all the way home lighter showers until Hayward, then in a consistent medium rain with complete cloud cover at 1:49 pm 50°F outside. all food in feeder gone & cat hungry. at 6 pm = .48" of rain. Rain started again at 8:20 pm - with a rain close by making noises. Rain thru night to next am at 9 am = .22"

7 June scattered cumulus clouds from S & W cool - at 10:45 am = 56°F patchy sun - little build up of thunderheads so far. 12:52 p light rain, a "T" blew over. scattered clouds.

8 Wed June high clouds moving over, few thunderheads to NW. 55°F at 9:40 am pretty clear at 2 pm; mackerel sky at 6

9 June scattered clouds, high and ill formed cumulus; 1 pm = 62°F . dull sunlight even between clouds accumulation of clouds over hills with a breeze. 3:59 pm high clouds - hazy - slight breeze - 74°F outside. Suddenly more bird activity: 4. Scrub J & H. Sparrows & meadowlark. 8:05 pm clear, far & real high clouds to W. - 60°F outside.

10 June clear, 9:45 am 58°F outside. cool breeze. 2 pm 64°F outside.

11 June fog in am - although sun out before 10 the fog didn't break up before me until about 11:15 pm, at 11:53 am - 62°F outside. a few high clouds & wisps of fog moving inland. clouds (high) to W \rightarrow N; a good breeze 3:40 pm = 72°F outside

Christman
1989

Journal

47

11 June, del Norte St., Berkeley, Alameda Co., Calif
8:26 pm sundown; 58°F slight breeze

12 June 6:45 am fog lifting, condensation
dripping off roof onto landing. Clear
cool at 8:15 am 9:29 Fox Sq. came in. a ♂
thin with a poor tail. Was out grocery
shopping awhile a little after noon.
It was very quiet, people on bridges,
running or strolling - but not many.
Safeway was crowded and people were
out on Galano. A peaceful sunny
day - at 2:35 pm 60°F outside in sun.
Slight breeze. Saturdays here are
busy & hard to park.

13 June clear, out early, at 8:10 am - 56°F
8:20 am Fox Sq. in briefly 8:41 Fox Sq. in Walm
high. 11: am filling high clouds to SW and
hazy^{is} hazy - fog (?) with a dull soft edge
off to ocean, 68°F outside. Refilled the
2 compartment feeder 2 ♂, 1 ♀ many little
twittering calls. 11:24 Fox Sq. again - same
one? 1:40 pm high clouds S to N. (glw gyrs).
2:44 pm more haze SW & lots more high clouds

14 June fog, at 6:30 a jay mah scene
S. scrub & I suspect a stellar alio.
8:48 am Fox Sq in full tail except thin hair
fog broke up a bit 1-3 then closed in, in
a spotty way

15 June more fog 54°F outside. Fox Sq. in at
6:30 am. 1:27 pm fog, but brighter now & same
wind. 58°F. at 3 fog cleared to W. but a very
hazy blue 4:50 pm fog coming in, 66°F, breeze.

16 June - 6 am. a few fog clouds - looks like
thawing cumuli to far W. Bay 7 complete.

Christman
1988

Journal

48.

16 June, del Norte St., Berkeley, Alameda Co., Cal.
overcast of fog 9 am = 57°F outside

2:26 pm overcast has broken up - high
clouds & patches of fog going NE & a good
breeze 64°F hazy blue to W. fog streaming
back in at late afternoon. 7:36 pm bright
due W. blocking out the sun. 8:38 no breeze 57°F ^{out}side

17 June, fog, at 9:43 am 54°F outside.

hazy clear at 1 pm. 2:24 pm = 64°F outside

18 June clear; will be warm today. no wind
into 70's. late evening 7:30 pm on quiet.
except for plain titmouse.

19 June clear not as warm as yesterday
a bit of a breeze at 3 pm. 3:50 wisps
of fog S to N & hazy to the W. fog in by 6:30 pm
It's so quiet in the fog, except for S. naves
20 June Fog. by 10:45 am smoky with
patches of blue & great chunks of fog making
S to N in front of me. 6 pm scattered patches
of fog & a band of high & midclouds to S & SE
(TV = thunderstorms down peninsula) 8:30 W - bands
of higher clouds & bits of fog to N.

21 June fog in am. 10:20 am = 1 Br. towhee,
2 doves, a ♂ & ♀ House finch, briefly 4
chickadees, 1 Plain titmouse and a
female-type House sparrow chattering
in Pittos. - afraid to come in.

22 June clear going to be warm; fog bank at coast.

24 June clear cool; a heavy bank of clouds
to S - SW in am.

25-26 June went to Healdsburg. Family wedding
strange clouds with virga. Home 2 ± pm Sunday

27 June clear, bright. Fox Eg in early & ^{briefly}

49

7 July clear & hot by 9⁰⁰ - at 1:32 pm 94°F out
side in shade. 7:45 pm sun behind trees 80°F
a very hot day. Records broken everywhere.

Christman
1998

Journal

50

18 July, del Norte St., Berkeley, Alameda Co., CA
Clear warm; at 11 am 70°F outside.
1 pm \pm cool sea breeze & can see fog
out the S.F. bridge. 1:55 pm 71°F outside.
The fog started coming in about 6:30
& fully in by 7:35 pm.

19 July fog - low at 7 am. 8:54 am = 54°F
diffuse sun out 10:15, a breeze. Fog all
day with some breaks. 12:53 pm slight
breeze, no sun 62°F outside (at 12 noon
 59°F). 3 pm $\frac{1}{3}$ clear, breeze, 58°F outside.
20 July hazy fog, variable, 9:24 am 60°F .
Fog heavier, at 10 am complete cover. Sun
out some at noon, 66°F some stringy cumulus.

22 July as yesterday - fog and cumuli
in varying thickness from E. Cleared
in mid after noon low 60°F slight breeze
sun by late am - diffuse. 90% clear 3 pm
 74°F , sky a hazy blue. Fog coming in at 5

23 July fog till about 11 am then opening
to hazy sun with cumulus high, 74°F .

25 July Fog lifted by 9:30 am going to be a
hot day

26 July fog lifted at 8:30 am cumulus stringers
from E cool breeze.

27 July Fog cool, started clearing up at
10 & whiffs left at 11:30 am. 50% + fog cover
at 12:45 pm. Completely clear 3-7 pm Fog
returned in 15 minutes at 7:30 pm.

29 July Clear over head but fog (broken) about
cool. Never get above 70°F fog returning by 8 pm = 59°F

30 July Fog. breeze, cool - at noon. 12: lots of
activity; not much feeding tho, out of small Bl Shear.

Christman
1988

Journal

57

31 July del Norte St. Berkeley, Alameda Co., Cal.
to Palo Alto yesterday. Fog there this am
burnt off by 10 am. One dead deer (near
Marian church - Mantelaine) no skunks,
squirrels or possums. Coming back broken
fog at Mantelaine at 1 pm. After noon
here in Berk. scattered fog & wind from W.
Again heard & saw crows at Ann's
house. Here at 2:45 pm 68°F. 7:39 pm
= 60°F complete fog cover except a brighter
streak off to NW - white

1 Aug. after 4:30 am to 6:30 only one
robin, ee-e-e, call. No singing, no jays.
complete fog over cast. at 8:22 am
56°F. The small Fox Sp. in at 8:15; then
a really big & bright one came in -
so there are two!

2 Aug broken fog over with streamers of
high clouds. Cool last night. 11:38 am
hazy sun, some strong gusts of wind.
half & half day, after high clouds. heavy fog by 8 pm.

3 Aug fog disappeared early, clear by 9 am
but as a hand to NE - a bit hazy. The
slows getting progressively more yellow

4 Aug clouds - high & spots of fog. 4/5 cloud cover
by 2:30 68°F - not sultry, cool breeze.

5 Aug heavy fog until 1:30 pm fairly clear!
mainly clear in pm - no high clouds. at 7:30
pm 64°F outside. breeze. one hand high cloud.

6 Aug fog early, 90% clear by 9.

7 Aug 1:30 pm still fog hanging in. Two
adult sized Fox sp. in backyard (one
- the aggressive chase dart between eyes
& a poor tail - it comes to landing).

Christman
1988

Journal

52

8 Aug. off route to Berkeley, Alameda Co, Cal
fog broke up at 9 am, 10:48 am scattered
60°F outside. quiet day.

9 Aug 8:13 am fog, 56°F outside.

11 Aug No sun to day & very little yesterday. 7:40 pm 54°F outside.

12 Aug 10:30 am very heavy fog, though
not low. a light drizzle; landing
damp last night. 11 am B. towhee & scrub
jay (ad) foraging on ground among
oak leaves in backyard. And Fox Sq. (ad)
but thin tail, at rear feeder. Jay "gaa"
calls - same time ad malling on front
land both flee off calling. Also a very
silly malling bl. towhee in front.

The elms have a definite yellow/tan cast
to them - varies with tree; end of branches
first & both high and low - a strange
draught year - the Ind. 2:30 pm 58°F
outside with a breeze. Sun out by 6:30 p.
same scattered clouds & fog.

13 Aug fog; hazy sun at 11:50 am. 60°F.
lots of fog to N, moving from S. 50% blue
61°F - feels cool. Yesterday Fox Sq. in
elm to SW. The removal of dead tree
between cedar & oak limits, now, access
to the oak. Seems to be only one Fox Sq.
now. It still tries almost every day to
come in front to feed - I chase it off.
It does feed on back feed unharmed
cedar in afternoon; 5:30 whips of fog from SW.

4 Aug Fog to now 2:44 pm = Fox Sq. in oak
S side near end of vertical branch - it is
hitting off something & eating it with hands.

Christman
1988

Journal

53

15 Aug, del Norte st., Berkeley, Alameda Co., CA.
fog in am. am going to Palo Alto today

16 Aug My birthday! was in " " -
clear, (yesterday - fog S. to Hayward &
broken fog across ~~San~~ Barton Bridge
clear there, but a bank of fog over the
coastal hills). Left at 10:45 am - clear
all the way & in back at 11:45 morning
trip. 2:20 p. Fox Sq. in cab; one on landing
about 1:30 pm - same one? 7:51 after
sundown - quiet except for traffic & jets.

17 Aug clear at 7 am. Condensation on
landing - very wet & dripping from
roof. at 8:55 am 58° F.

18 Aug clear will be a hot day. 10 am = 62° F
This is a very quiet day. Found both
dove flight feather & jay tail feathers
in yard this a.m. 11:15 am Fox Sq. in to
landing - almost full size & tail is
not as full as other. Yesterday at
5:30 pm ± one running about in
cab - frisky. The sun is about down
get to about 70° F to & cooled off quickly

19 Aug Fog at 6 am; pretty clear by 8 am.

filled in again - complete fog cover at 8:46 am
14:52 pm first monarch going S. New Fox Sq.
really a big one & nice tail! Fog coming
in.

20 Aug Fog. at 7:45 am a Fox Sq. W. across the
st. parking & landing & another N of house
doing the same. One was in early at landing
Fog just coming in at 8 pm 57° F outside - cool day

21 Aug Thunder about 6 am - 8 am, T of high tops
of rain about 7:30; fog early no 100% clouds.

Christman
1988

Journal

57

21 Aug., Ed Route St., Berkeley, Alameda Co., Calif.
more thunder about 10:30 low fog from
W & scattered cumulus clouds, bright
to filtered sun. at noon = 63°F outside.
Put out the Drexel Yankee feeder -
the large tube kind that Anne gave
me - no bottom so weired the plastic
top of Hagan dazs ice cream to bottom.

22 Aug was up into mid 70's yesterday
afternoon - clear. This am. fog
burnt off early - 8 am - wafts of
fog from W at 9:30 & small cumuli
from SE.

23 Aug. fog early & blue leg 8, clear by 9:30
am. The clouds are now predominately
yellow & tan.

24 Aug little fog in am

25 Aug no fog & very hot - in 90's

26 Aug from 7 to 8:30 bands of cumulus
clouds, thinning from S. going to be
a hot day. Late yesterday a Fox Sq.
was feeding in the oak. This a.m. an
steps were torn apart & adobe under
the oak - all about $\frac{1}{2}$ ". A cooler day -
8 pm sun low available & 61°F clear all day.

27 Aug fog coming in about 2 am. Cool
- fog at 9 with few thin spots. 58°F .

28 Aug fog, 1

30 Aug fog, opening to F by 9:30 am. clear all
day fog back in by 8 pm

31 Aug clear at 7:15 am; fog in at 8 am. scattered
fog & hazy sun at 10 am

1 Sept fog, a quiet day. { same for less.
4 Sept " clearing by 8 am { sun all day.

Christman
1988

Journal

55

- 5 Sept., del Norte St., Berkeley, Alameda Co., Calif.
Fog, hazy sun by 9:20 am. 58°F outside.
Fox Sq. in oak, then another at 8:15 am
then a chase up & down cedar trunk.
- 6 & 7 Sept fog at 7 am clearing between 8-9
cool 58°F at 9:27 am.
- 8 Sept 1:30 pm heavy fog, no sun, tho
a few small holes of blue to NW. 60°F outside
- 9 Sept. 9:34 am Fog, 58°F heard a robin
tucking throat 6 am, no early jay calls
cool day cleared in afternoon.
- 10 Sept early fog. Fox Sq. in at 8 am a short
tail - a new one not as large as others.
not a warm day. fog back in by 7:15 pm
- 11 Sept - to Mendocino - meeting A & B.
- 16 Sept back to Berk. on Wed. 14th about 2:30
pm. fog. all food gone. Threw out safe-
way bird mix. at 4:30 we have finch.
filled D-4 feeder. On 15th more finches
& one dove. When food not out they
disappear. fog most of day. Today: a
sabin eh-eh-eh at 4:30 am. 7 doves
in feeding at 7 am - a fair amount of
chasing, etc. several house finches.
- 17 Sept. variable types of high clouds, from
NW. cool, low 50's °F outside last night.
This am at 7:30 am landing is wet from
condensation. Titmouse around earlier
yesterday. clouds gone SE by about
noon, warmer & clear
- 18 Sept very hazy am. esp. on horizons.
at 10 am a yellow hazy glow - no shadows
70°F Single Monarchs flying S. Fox Sq in oak
bitting acorns. Leaves falling, very minor bits of green.

Christman
1988

Journal

56

18 Sept. del Norte St. Berkeley, Alameda Co, CA
a very strange day - strange quality
to the air. late pm - a brush fire at
Vacaville - no smoke. clear late afternoon.

19 Sept. 8:30 am high clouds, long string and
cumulus to NW to NE. Fog on top of hills
moving S. a cold front down from
the Pacific NW. The weather has shifted
to an early fall.

20 Sept clear, cool & lots of condensation
on patches. a few very faint high clouds
no wind. Many bare branches on
elms; few green areas (those in middle
of trees). clear all day except a little smoke
from Vacaville fires. at 7:40 pm practically
dark - 56° F outside - fall is here! will
be get an "Indian summer" - warm -
when will the rains begin. Very dry.

21 Sept Equinox clear at 7 am. By 8:20 am
fog had come in from W. cool. 52° F.; 9:30
am fog cleared but a bit hazy, same
fog - cool, damp. 3:26 pm. a good breeze
64° F outside.

22 Sept. scattered fog early, condensation on porch
56° F at 9:30 am. 9:55 am short tailed Fox Sq. in oak
~~leaving~~ gone by 11 & one broad stringer of high
clouds to NW. 4:07 p. 78° F a few high clouds.
a long tailed Fox Sq. in the oak.

23 Sept. fog; cleared 8:30 am, hazy, 50° F outside.
3:06 pm 66° F. sunny but hazy. several
monarch butterflies. 3:20 pm some high thin-
diffuse clouds from SW. 6:52 pm almost
sunset - longer nights THIS FALL 58° F
outside - clear, but hazy - bare elm branches.

Christman
1968

Journal

57

23 Sept. del Norte St. Berkeley, Alameda Co., Cal.
John Westlake said this a.m. that the
first white-crowned sparrows arrived
this am at his place. In going to be
watching the precursors of winter -
is there a clue or clues to the
start of season coming up? There
are rumors (or wishful thinking)
that this is going to be an early,
wet and colder winter, after 2
rather mild & dry winters.

24 Sept. 8:58 am up at 7:20 am - fog
no condensation; 51°F. rather heavy
fog until it opened about 2:40 to
hazy sun - fog back by 5 - 56°F out

25 Sept watched KQED until 12:05 am =
no fog but clouds - broken. at 7:45 am
came out of clouds. Out for breakfast =
light rain 8:45-9:30 am enough to wet
everything. by 10 clouds blowing of to NW-NE.
58°F. a quick little frost & early one!
Warbler in back with a flock of lark-tits
clear most of afternoon.

26 Sept clear, cool (49°F) & wet due to
condensation. clear all afternoon - cool

27 Sept high fog; 58°F at 8:58 am. The fog
started to open at 9:15; pretty much clear
by 9:45 - a bit hazy. A few high strings
of clouds - very thin. yesterday & this am
monarchs to 5 (one to N). after 3 bands of
high thin clouds from W to E.

28 Sept clear, cool, no wind, everything
wet from condensation. clear all
day - not especially warm.

Mistman
1988

Journal

58

- 29 Sept., del Norte st. Berkeley, Alameda, CA
clear, not as wet outside; at 9 am
59°F. a constant 4 or 5 monarch
butterflies seen daily. clear & hot out
- herb patio in shade - 79°F; in front
shade outside 83°F. 3:55 pm in sun =
100°F - clear no wind; quiet hot day.
Sundown ± 7 pm at 9:07 - 74°F outside upstairs.
Crickets in herb yard - have heard them ^{an} ~~even~~ nights.
- 30 Sept clear, damp at 8:19 am 55°F outside
2:02 pm 75°F (shade still, & will be in the sun
shortly). Hazy about the edges - smog.
7:07 pm Sundown, clear herb & fog to S & W
moving rather quickly this way. 58°F outside.
- 1 Oct fog, low down the hills. at 9:09
am = 51°F outside at my desk up stairs.
9:46 am Fox sq. full tail, ad size, but
not as large as some - scissor
dark nipples on belly behind arm
pits. Fog until 4:30 pm - scattered sun,
cool, 7:06 54°F & broken sky to W, fog ^{coming in!}
- 2 Oct. Fog, 9:22 am 57°F fog breaking up at
noon & mixed all day pretty clear at 6:50 p
with 59°F
- 3 Oct fog, 10:05 am 58°F very quiet! a few
doves in early. Have been cleaning up landing
- a brown & black on landing - nothing has
come in - things look different.
10:47 am hazy sun out to E, fog S to W to N.
11:18 am a few patches of blue to W; brighter sun to E.
11:49 am 75% clear = 60°F. 1:45 pm monarchs
flying by. 3:07 pm 65°F outside - cool, light breeze.
- 4 Oct, fog. On Sunday (2nd) a dead possum
on Grove st near Elcadero, this am on Kysha

Christman
1988

59

Journal

- 4 Oct, del Norte St, Berkeley, Alameda Co., CA.
- on Hopkins near gutter - why 2
on streets at this time 9:21 am filtered
sun breaking through, fog breaking
up high to W-NW. 9:29 am ♀ fox sq. down
drain pipe - nipples on side of upper belly.
The short tailed Fox sq. is in the near
cedars. 10:10 am 56°F. More robins about
and ? cedar waxwings ?, cooper hawk &
Kestrel I guess "winter" is near. 10:22 am
sacked in with heavy fog again 11:14 am
hazy sun, high broken fog; looks like some
high clouds. 11:39 fog again. 59°F a monarch
flying high to W & SW. 12:04 pm the short tailed
Fox sq. on landing. Hazy sun, still overcast.
12:25 pm there are clouds now dull overcast
layers to ^{W^N}W. same blue. 3:30 pm mainly
clear, all sorts of clouds, all levels. Thunder-
head to N., brisk wind. 6:06 pm 62°F dumber
clouds to ~~W~~W & NW. little wind. quiet, no activity.
- 5 Oct Fog, 8:41 am 54°F 3:24 pm still foggy
at 58°F. The sun never came out. 7:24 pm
54°F outside & a cricket is stridulating
- 6 Oct Fog, everything wet from dew & a
light drizzle falling at daybreak - Tan.
8:22 am 52°F no birds about, but food
gone on deck. 9:21 am a fox sq. (short-
tail) in oak foraging on small branches
saw another one came over the back
fence & down the "fence" of ivy to embank-
ment fence with a large seed as fruit
in mouth which it buried in leaf litter
under the larger oak. Then it arrived
on the landing in front. Still heavy fog.

Christman
1988

Journal

60

6 Oct., del Norte St. Berkeley, Alameda Co., Calif
10:46 am big scruffy, full tailed Fox sq
into feed, saw me & left. 2 pm 57°F quier
breezy at times. Opressa broke up a
bit about 4 pm then returned.

7 Oct wake up about 2:30 am to a light
rain & it continued for about an hour.
Scattered clouds at 7 am. Things wet
except under thick trees. Just stray
bits of cumulus about. 9:35 am fog is
back in.

8 Oct clear, but misty 56°F at 9:37 am
one or two Monarchs yesterday & today

9 Oct. hazy, clear overhead at 7 am, by 8 am
low thick damp fog 51°F. Nice warm day

10 Oct. Fog, 51°F at 8:23 am. Clear by
noon. 1:49 pm bank of clouds to NW to SE.
clouds overhead by 3:30 pm

11 Oct Fog (hazy & Maricao. in sun) from
Galano ave. 12:08 pm scattered fog -
it has been more open to SE - W & thicker
over head & to N. 60°F. Briefly clear[±] at 5 pm

12 Oct Fog all day, briefly open to W at 5:30 pm
some high clouds to W at 6:30 pm Raintanawan?

13 Oct general cover cast - looks more
like clouds than fog, 54°F. 10:20 am
heavier cloud cover - little bird activity.

one H. Finch in top of elm. 1:20 pm some sun,
periodic wind from SW; dark clouds to SW
and many layers of clouds. 3:37 pm start/rain
really coming down at 3:41 pm. rained a
fair clip to 6 then lightened up.

14 Oct 6 am dark & a light drizzle, at 8:14 am
55°F everything wet. 9 am dull overcast^{no} rain

Journal

14 Oct., del Norte St., Berkeley, Alameda Co., CA
 8:59 am lighter, clouds parting, small patches of blue - clouds moving S. from N. 10 am larger patches of sky, 62°F in protected back patio (kitchen), 60°F upstairs outside. Rain fall late yesterday & this am. 45" . 10:46 am 75% clear; 1 pm scattered clouds some big ones & very dark, clear to W. 3:59 pm rather clear, fog off to W, a few high clouds 79°F in sun.

15 Oct. 9:27 am clear, cool (56°F upstairs) fog over bay - fog horns. Everything wet from dew. very quiet. Monarch - have seen about one a day lately. To Palo Alto warm & clear. Mockingbirds singing in short bursts.

16 Oct. left P.A. at noon - back. 1 pm clear & hot 82°F in back patio in shade; 85°F upstairs at 1:51 in shade (so far) high clouds from N - off to N and to SW.

17 Oct. 8:19 am clear, 59°F. By 10 am have seen 4 or 5 monarchs flying thru. One landed near top of oak for a few minutes. 10:28 am some gusts of wind, a shower of yellow leaves falling up the st. high pressure to NE with off shore interior winds 11:28 am consistent wind. Fox Sq. 2 in feeding about 8:45 am.; 11:30 another one - thin & ratty tail - others full tail, plus the one with only 1/2 tail. 2:19 pm monarch going N! very hot afternoon. 8:33 pm 66°F upstairs

18 Oct. clear, sun over hills at Artman's - for breakfast at 7:57 am. 8:26 am 56°F upstairs 10:19 am monarchs floating S.

Christman
1988

Journal

62

18 Oct, ~~del Norte St., Berkeley, Alameda Co., CA~~

3:15 pm west Berkeley - gaps of fog
forming in a blue sky at the bay
shore & rushing overhead to hills
west burning out after 1 mile. bank
of fog to fair WNW & SW. at 3:52 pm
in sun 79°F upstairs. 6:30 completely fog
19 Oct thin spotty fog; dew on things, 51°F
upstairs. 12:17 pm clear, cool (63°F) with
only one high wispy cloud.

20 Oct. low dipping fog, 54°F - the utility
pole at circle is very pale & up st cedar very
muted. House finches in Pittos making noise.
9:40 am the low fog has lifted & a very
dull sun but no shadows. 58°F. 10:38 am
essentially clear with hazyness about
horizons. Big chase by 2 Fox Sq. on the
trunk of near cedar tree - both with
long fluffy tails.

21 Oct high fog, no dew, 7:56 am 50°F
8:20 am a small thin Fox Sq. with distal
half of tail rather ratty. A new one -
very persistent. 9:03 am if anything the
fog is lower. So far: 1 fox Sq., 1 towhee in Pittos,
one house finch in top of NW elm & the cooper
hawk. Is the lack of bird activity due to the
hawk in the neighborhood? 10:18 am 3
HF in top of NW elm & robin in top of up st cedar &
a flicker called & 1 Br. towhee to feed. Slow day.
10:51 am another small (juv?) Fox Sq. down
from house roof - good tail. So this makes
2 new ones in a day! 12:28 pm short tailed
Fox Sq. in; 56°F fog - higher now. dull day
3:45 pm sun out to W - not still foggy. 7:09 pm 52°F

Crustman
1988

Journal

63

22 Oct, del Norte St., Berkeley, Alameda Co., Calif
10:35 am a few blue holes in fog, dull
sun, vague shadows. = 54°F . 10:44 am
pretty well cleared up 75% blue soft hazy
light. 11:49 am in 10 minutes 3 monarchs
to 5 three yard - none flew by in the fog.

3:19 pm = 64°F From Halden Gate Audubon
Soc. bought 2 25/16 sacks of "Black Oil
Sunflower Seeds." 42. -

23 Oct fog, 10:34 am 54°F . 2 robins & 2 house
finches in tops of elms. Sun out a bit at 1:30 pm,
still overcast SW to N. 2:17 pm 60°F sun, few
holes in fog. 1 monarch in early afternoon.

3:01 fog filled completely, no sun no robins, etc.

24 Oct. fog, 12:06 pm 54°F up stairs outside
complete cover, dull day.

25 Oct. Fog, 51°F . General forsq. in Robins
in neighborhood about 10+ lanes & like
of House finches into feed together, at
10:20 am both fly in directly. The robin
chasing this am is a dramatic occurrence
- they are so obvious, now in numbers
flight & calls. This am. is amazing for
it seems to be a winter pattern with
overcast skies. Many house finches &
robins. Brown towhees & jays present
tho not obvious. No heavy winter type
stains here or up the coast. 11:54 4 robins
1 scrub jay & 4 H.F. high in NW elm. = 54°F outside
up st. at noon - first small flock of waxwings!

26 Oct. 12:51 pm 54°F fog (didn't clear up
here in afternoon, but a brief break in
W. Berks.) Dull fog all day. 7:22 pm 51°F
outside. Possible storm Friday night.

Quistman
1988

64

Journal

27 Oct, del Norte St, Berkeley, Alameda Co., Calif.
fog, 50°F. doves in early. 9:30 - am. only
bird about is a house finch in top of NW elm
no robins, towhees, etc.

28 Oct up & out at 6:45 am - more fog.

29 Oct overcast 11:15 = 58°F quiet in am
about 10 + more robins, doves & finches.

One monarch at 2 pm first in several days.

2:18 a dull sun thru overcast - vague shadows.

2:51 pm patches of hazy blue; 63°F.

30 Oct clear BACK TO STANDARD TIME

10:08 am 54°F 3:45 pm 6 doves, 3 ♂ house
finches & one chickadee. 3:55 10 doves. no jays.

31 Oct. blue skies, except for high thin
males' tails going to SW. 59°F at 9 am

after days of overcast - fog today with
only semi-sharp shadows, long
thinish clouds and filmish hazy ones
is different. a monarch came out of
the N & flitted about the Pittos. Then it
found the only white flower & settled
on it. It then flew on. 10:30 am 62°F

- high clouds are thicker to SW & shadows
are more diffuse. noon 70°F fewer clouds
high thin clouds out of SSW to N. 1:10 clouds
getting heavier, no shadows. 85% cloud
cover to SW at 1:24 pm. 2:43 pm high thin clouds
& a few patches of pale blue. No wind today

1 Nov. 8:30 am fog; 53°F. 10:10 am = no robins,
no flickers, doves in at 7+; non-new, 3 House
finches & one towhee in Pittos. Very slow am
no jays. 11:11 am a heavy mist falling
by 1 pm opening - clouds - all levels. 4 - band
of blue to S. Home - complete overcast 57°F

Christman
1988

Journal

65

2 Nov, del Norte St., Berkeley, Alameda Co., Calif
wake up to the sound of a gentle
rain at 1 a.m.; it continued for $\frac{1}{2}$
hr. & tapered off. at 7-8 a.m. a few
hales to S & W blue with blabie
cumulus clouds. 8:40 am light rain.
very brief. 2:10 pm were a few open
spots, but low cumulus & just about
continuous in space & time. 4:30 pm
solid overcast above, open pieces of blue &
clouds to SW to NW. .15" rain

3 Nov. light rain about 5 a.m. dull leaded
skys, by 8:30 am lightest drizzle. 9:11 am
2 Fox Sq. in aab, same mild chasing. -
a not very enthusiastic capulation
the short ($\frac{1}{2}$) tail is ♂ & ad. size ♀
with a full tail. [that leaves 2 sub-
adults which are smaller & come in
to feed as well as these adults - are
the young last years progeny - ?]
This "pair" were chasing about yester-
day in up St. slms. 10:45 am no more
drizzle - still heavy overcast, but not
dark. 11:10 am several gusts of wind and
the first of air liners over low. when
air liners are heard it means: that
there are south winds at the Oakland
air port & the approach pattern is
from the north! why none before 11
and now several? .13" rain

4 Nov low wet thick fog at 7 am, clearing over-
head & only patches N & E. Dark steel blue to
W. 53°F. 10 am fog breaking up into chunks -
59°F bright sun in patches. Clear at 11 62°F.

Christman
1988

Journal

66

4 Nov, del Norte St., Berkeley, Alameda Co., CA

2:15 pm, a monarch flew by. clear slight breeze, in sun upstairs = 86°F .

bank of fog SW to NW above horizon -

No high clouds - went over quickly at 4:20

5 Nov spotty upper clouds "Maresal"

clouds from W. 9 am 57°F to Palo Alto

- there by 11 am increasing clouds at all levels

6 Nov in PA clear, a few cumulus to E. Home

at 12:45 clear with high stratus to W. at 1:16

in shade upstairs = 61°F

7 Nov. scattered clouds: filmy high & diffuse

cumulus 8:05 am 50°F . no wind - dull

sky. 9:08 am complete cloud cover.

9:31 a breeze from the S. it is blowing

cedar seeds & the few remaining

elm leaves to the N. clear to W-N in

afternoon. High clouds to W at dusk - 5:15

7:32 pm 50°F .

8 Nov 8:11 am 50°F complete cloud cover -

multilayered. 10 am gray then where

no distinction of clouds as earlier.

9 Nov high thin clouds, 8:21 am 52°F . 9:15 am

54°F , dull high overcast, diffuse shadows.

12:30 pm a few high clouds & cumuli building up behind

hills. 2 pm now uniform darker high clouds - layered

10 Nov wake up to rain at 11:30. at 6:30 it

had stopped. = (0.25)" the clouds were

breaking up by 8 am but no blue; 52°F .

43 clear by 10:30, 58°F . - higher clouds disappearing

& now only a few cumulus in every direction.

1 pm. brilliantly clear day with many cumulus

clouds, some as small thunderheads to SE.

1:44 pm some filmy high clouds to W, breeze

Christman
1988

Journal

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10 Nov, del Norte St, Berkeley, Alameda Co., Calif
2:06 pm high clouds streaming to S-SW from NW. 3:45 pm 61°F now a few cumulus but from W. a layer of high clouds - so color is a dull light gray no shadows.

11 Nov 7:30 am things wet & heavy clouds. 8:30 am is breaking up, no sun same blue Fox Sq. there are 3 - a small juv. with slightly poor pelage, it maybe molting (base of tail - proximal $\frac{1}{4}$). Then 2 adults which have been in oak and the upstreet elms. The $\frac{1}{2}$ tailed one is ♂ & chases & copulated with other - a ♀, presumably. I noticed last weekend that these 2 are quite suddenly rather fat, noticeably! all 3 are very persistent in coming to landing to feed on bird seed. I chase them away, they return! will trap them. 10:14 am. low clouds from W - diffuse cumulus. Higher clouds from the NW. 50% blue; clearing up. Only a trace of rain this time. 12:19 pm ~~clouding over from SW~~ 1:19 variable clouds at different elevations from NW.

12 Nov light rain started at dawn, continued to about 9 am & stopped .05", dull sky. no sun at 11 am. 11:30 am caught the short-tail ♂ Fox Sq. & released it at Hinkle City Park $\frac{1}{3}$ mi. NW. a light mist falling. Room 54°F
12:35 pm 2 sp. in the young small one and one with a short tail! It could not have returned so quickly - unless there are 2 at that time - a full tailed (? ♀) ad in oak - cedar
2:00 pm sun & blue sky to W-SW; clouds to N

Christman
1988

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Journal

12 Nov., del Norte St. Berkeley, Alameda Co, Cal.
4 pm more clouds from SW mask al sky

13 Nov. light rain at 7 am, some wind,
9:16 am clearing to W & bright sun, clouds
moving fast to N. 9:43 more clouds & wind
is getting stronger major branches moving
55°F 11:30 am 5 mins of very heavy showers
at 1:09 cloudy, drizzly. 51°F today = 18" rain

14 Nov broken cloud cover (95%) 46°F
was a dawn pour at 6 ±. Rain
since yesterday afternoon = 20"

10:07 a.m. 50°F light sprinkles. Have seen
no squirrels so far this a.m. They showed
up in afternoon!

15 Nov scattered low cumulus clouds
at 8:17 am 50°F 10 am variable clouds,
sun out now, 52°F. drawing class 3:30 pm
layers of cumulus clouds, dark toward hills,
55°F. clouds collapsing & lower now sun

16 Nov at 6:30 low clouds, slight drizzle,
8:20 am light rain 50°F. Rainfall at noon
= 19"; 1:34 pm heavier rain 3:31 pm constant
rain & some wind. Birds in the rain in
light rain towhees, house finches & C-B
chickadees active - out in in. In heavier
rain 10+ doves hunched up on major
horizontal branches 3-5" thick, 5-10'
from trunk & fly into feed. Kinglet on
top of canopy during medium rain.
Rain stopped about 6 - at 7:24 pm = 48°F

17 Nov 7:00 am 42°F Clear no wind. 9:13 am
few cumulus SW; 47°F. Yard very wet!
10:45 am windy. 12:27 pm 53°F 12:30 caught
a small Fox Sq. & took it to Humboldt Park,

Quishuan
1988

Journal

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- 17 Nov. ~~all night to Berkeley, Alameda Co., Calif~~
3:30 pm after a sky full of beautiful
high cumulus clouds, now clear —
faint in sun - 62°F 4:04 fox sq. not
fully ad. size good pelage & not fat.
- 18 Nov. Clear - few bands of high clouds
to W. 9:37 am 47°F. 11:52 am N-S bank of high
clouds: SW-N; no wind now.
- 19 Nov. Clear all day in low 50's very quiet
few high clouds as N-S stringers.
- 20 Nov. 7:30 - 8:27 am light drizzle -
streets, etc are wet, overcast 46°F
caught a full tailed Fox sq. & took
to N. Berkeley library on way to breakfast
at 7:30 ± AM. think this was a ^{big} ♀ -
so I've caught 3 & named. 9:35 am
lighter & drizzle almost stopped. 10:55
am. overcast, no drizzle, 51°F. 3:pm overcast
52°F. Fox sq. - there is another small one!
cloudy all day. at 7:27 pm 47°F
- 21 Nov. heavy & thin to hazy high clouds, no
shadows, at 8:24 am 46°F. Caught the
second smaller young Fox sq. & taken &
released at Nible Creek at 8:20 am. Say
theory that leaves: (?) the fat ad. ♀ and
the 1/2 tailed ♂. 12:59 pm half dozen robins in
elms, Plaintif & chickadees in as well as
Br towhee, House Finches, a few golden crests
Townsend Warbler in oak - a call from ♂ is
making in, complete overcast. This burst
of activity! Even a hermit thrush came
in briefly to look around. few waxwings in W
elm 1:54 lark-tits in oak & 3 doves in. 3:43 pm
52°F getting darker.

Krustman
1988

Journal

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21 Nov., del Norte St., Berkeley, Alameda Co., Calif.
5:11 pm big, cold rain drops, then a light
drizzle.

22 Nov. light rain all night at 7 & 8:16
am. 52° F. 8:18 drizzle overcast. Yesterday
the short tailed Fox Sq. was on ledge & this
a.m. saw a long tailed Fox Sq. in the W. elm.
House finches & chickadees in ley 8:50 am.
at 10:30 am rain fall since 5:11 pm yesterday
= .44" light rain, a little wind. Short tailed
Fox Sq. in - it is very fat. No robins seen this
a.m. chickadees active in oak - Pitts. 1 pm
harder rain, 54° F, 2 flocks of C. waxwings &
several gulls. S wind, rain at 45° L. First
clump of mushrooms at base of W. Elm next to
the sidewalk. Foraging or perched in rain:
House finches, chickadees, Br. towhees & G-C
sparrows, & doves. rain lighter now. 4:03 pm
55° F getting dark early! almost stopped raining
at 5 rain fall since 10:30 am = .42
no rain at 7 pm. Light & rain during nite.

23 Nov. at 7:30 am light rain; holes in clouds
8-9 am 46° F. 8:57 am 1 tit mouse, 2? chickadees
& 2 Kinglets in oak. 9:39 am the short-tailed
Fox Sq. on ledge facing W. (it looks like
a miniature Marmot its so fat) - the
grizzled brown coat; tail dangling and
the posterior sides of FARS a bright
orange! The back of ears is interesting
The individual is fearless - jumped
upon window ledge & stared at me!
9:54 am a fat large full tailed Fox Sq. in - a ♀?
Sennat - clouds rising N. 10:06 a bright
morning, 75% sun, sharp to dull shadows

Crushman
1988

Journal

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23 Nov. del Norte St. Berkeley, Alameda Co., CA

10:19 am clear to SW - NW clouds to E. 51°F

11:10 am bright sparkling day, 52°F, of few fluffy cumuli. There was a lot of bird activity until about 9+; none now, no nothing!! What are the activity patterns/weather?

Rain 5 pm yesterday to this 8 am = .76

so total for 2 days 1.62" of rain. 12:41 pm 90% huge cumulus clouds & some wind. One heavy short shower at 12:30 51°F at 1:49 p.

2 pm a small ♂ Fox Sp. in to feed - dim sure this is one & released! its familiar with the layout! Did it go near the trap.

3:47 pm caught the squirrel with short tail & took it to the "Nature Area" in Tilden Park

- just got home & there was another Fox Sp. with a short tail. So there are 2

- some make it back from N. Park. the tail looks short - its just not as long.

4:34 almost clear, of few fluffy - small cumuli

48°F. Ravens feeding

24 NOV mackerel sky - clouds from W. a huge thunder head WNW in Marin Co., 44°F. Rain last night. 22"

to Palo Alto about noon. Was surprised to see several good sized flocks of starlings flying about Anna's neighborhood 50± & landing in redwoods. light rain there after 5 pm [Rain measured on 25th Berks .33"]

25 Nov. Back home at 11:30 am complete cloud cover then broken cloud cover in early pm.

A new ad lig - tho not fat ad. a good tail.

So is this the "instant" ♂ replacement for 1/2 tail ♂ that went to Tilden?

Christman
1988

Journal

72

26 Nov., del Norte St., Berkeley, Alameda Co., Calif
clear, at 9:14 am 48°F . This am has been
dull - the new ♂ Fox Sq. & a young one
in briefly. No robins, a few House Finches
briefly, a jay in top of NW elm, a chickadee
briefly. Of course the towhees about
for awhile. There is food out. Doves in
very early. At 11 am 52°F , ds the inactivity
due to temperature - high pressure regime.
Today until about 2 pm a few fluffy cumulus
clouds overhead & a haul of cumuli up &
down coast WNW to SW 70°F in sun upstairs
Sundown at 4:52 pm at 51°F , doves ^{are last to} leave.

27 Nov clear 9:21 am = 46°F one ad Fox Sq. in to
feed & another ad in up SE elm out on 1" branches.
10 am for an hr. + a few high thin clouds have
moved from WNW to almost over head.

28 Nov Fog, started clearing 8 am overhead,
thick over hills & to W. 8:45 am 47°F . Doves
in early. Fog drifting in from N, sun only
spottily. Essentially clear by 10:30 breeze
 53°F . at 11:30 am

29 Nov wind came up about 3:30 am - bright
clear day, strong winds 51°F (10:15 am) with
a few high clouds to S & NW. No birds about.
4:05 a breeze, 57°F high filmy bands & mares
tails from NW. a very windy day, branches on SE.
4:35 pm 61 towhee, kinglet, quiet jay, chickadee,
house finches & 15 doves in to feed. almost sunset.

30 Nov. absolutely clear, windy, 8:52 am = 52°F
9:58 am 2 Fox Sq. in separately - small - some
what ratty tail, a bit larger the small, good
tail. 10:01 am bath in at one time. Yesterday
got a brief glimpse of a Monarch (or was it a

Christman
1988

Journal

73.

30 Nov., del Norte St., Berkeley, Alameda Co., Calif.
Viceroy butterfly - (?) it was during
high wind & disappeared into Pittos trees,
10:12 am. a light breeze - only bird seen
today is the juncos into feed; doves in
at 7 am. No house finches, or robins, etc.
10:25 am caught one of ~~house~~^{ruby} tailed small
one & took it to same place in Tilden.

When I got home at 10:50 the other one
was still on the landing! I'll get it
soon! 11:36 am Fox Sq. is eating millet by hand-
fulls. Late P.M. = House F., doves, chickadee (1) —

1 Dec 8 am 43° F clear with high wispy clouds,
at 8:31 3 robins in elms & 1 house finch in. No
wind. Caught a smaller Fox Sq. to Tilden.

1:26 pm hazy & high clouds, no wind. a
large Fox sq. in feeding! left at 2:48 pm. By
theory this is only one left (is it the fat ♀
? this doesn't appear that fat, full size tail)

2 Dec. hazy, high sketchy clouds, no or very
shadows; no breeze, no birds at 8:30
am +. 3 pm after 1 pm an irregular band
of high clouds, almost a bank in from
W, moving N. but not overhead. Big Fox
sq. in this am at 8 am, few House finches &
chickadees to feed; few doves; only 1 or 2
robins early on — an extremely quiet
day.

3 Dec 8:52 am clear, high clouds to W. some stiff
breezes. See parus inornatus. No finches in
nor doves (who were in at dawn 7 am).
very quiet day except for parids.

4 Dec 9:30 am 50° F clear (some cumulus S & SE and
large off to W. 57° F at 11:24 am clear, no wind.

Ruistman
1988

Journal

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4 Dec., del Norte St., Berkeley, Alameda Co., Calif.

1:24 pm a robust large Fox Sq. with full tail has been in earlier than a large one with half a tail came in! I can't believe it. I've moved it twice!

5 Dec 9:27 am clear, cool = 49°F ; hazy etc to W. Ravens in early 15-20. The large persistent full tailed Fox Sq in (it was running thru the oaks yesterday at same set). 9:59 (51°F) The same Fox Sq. was, for 15 minutes +, on an irregular vertical branch of the 13" diam across 1'-1' diam trunk, 20' from ground. 4/3 time in sun facing S, then facing N (warming up in sun?) then it up branches 30-40' on 5" branches. 10:21 am short tailed Fox Sq. in feeding - are there more than one?

10:25 am a bank of high, hazy clouds is moving in from SW - NW over tops of dunes now.

No wind this a.m. 11:44 am clouds overhead, indistinct, heavier to SW behind my cedar.

1:27 pm clouds moving S.; 50 - 85% cloud cover.

2:50 pm 60°F clouds hit heavier. 1/2 tailed Fox Sq. into feed.

6 Dec. complete cover of high hazy clouds - soft shadows, 10:41 am = 57°F . 4:45 pm fog horns! very thin hazy high clouds, visibly clear.

7 Dec clear night here, wind in early am 1-2 am \pm . Clear & bright 10 am = 58°F . Caught a short tailed Fox Sq. & took to tiller.

One remaining Fox Sq. by therapy, 3:45 pm light variable breezes, brilliantly clear, 70°F , 1 robin in top of upland cedar feeding; doves (12), towhees, chickadees & house finches.

Christman
1988

Journal

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8 Dec, del Norte St., Berkeley, Alameda Co., Cal.
clear, a few bright high clouds to E, E wind
8:28 am 54°F. 8:33 am about 20 gulls
(sp?) circling & gaining elevation 100+ yds
to NW & disappeared to N. This a.m. heard
a robin "tucking" briefly, RFF Br. towhee
— no other birds, except waxwings flying &
one house finch in NW elm briefly. 12:36 pm
sunny, breeze, 65°F — a monarch
butterfly flew vigorously over Pittos & then
corner of house to S! late, what? 1:52
pm chickadee in & longtailed Fox Sq in up at
elms.

11 Dec a few high clouds, thin fog to W early, ^{all} hazy day

12 Dec clear, hazy horizon to W., 49°F moving

yesterday and this a.m. at 9:21 am Fox in high
canopy of oak. Entire & sub branches move.

11:08 am two full tailed Fox Sq in at one
time. 1:30 pm caught a Fox Sq. & took
it to Tilden Park (same place as others)
it had a full tail, fully adult.

13 Dec. clear with a few high clouds. at 8:55
am 45°F. at 8:30 a fox sq. came into ~~for~~
cedar via W elms from Pittos. & oak across
the st.; then into my oak.

14 Dec clear, cold. Last night (4:45 pm) saw
TWO Fox Sq in the oak. 3:51 pm clear, 64°F
doves, juncos, chickadees, house finch towhees
in to feed.

15 Dec. Last night very heavy winds from NW-NE
Qests were extremely strong. In a.m. 1" +
branches from elms across street. At 10 am
48°F. Damage on Guelano ave. 1 house finch in top of
NW elm; flock of waxwings swished by fast

Christman
1988

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15 Dec., del Norte St. Berkeley, Alameda Co., Calif

The Millen is swaying violently & the new 2 house finch stick till they flee down to Pittos.

16 Dec multi layers of clouds from SE (there is a low over southern Calif) with 50-90% cloud cover; no wind. at 9:58 am 48° F. 11:40 am general overcast, no breezes. 2:21 pm variable clouds, many layers 56° F. Little bird activity.

17 Dec high clouds & layers a cumulo-nimbus 9 am = 49° F. 12:41 pm a blue dragon fly cruising about acb & Pittos. 4:31 pm - 11 doves, 3 house finches in; 1 B towhee (first today); 1 Kinglet in acb - a very quiet day. Misc clouds, 50% cover.

18 Dec 8-9 am 98% cloud cover, very light sprinkles on deck & wind shield. 45° F 10:57 am 75% layer clear, dull shadows & thin clouds to SE, etc. 48° F little bird activity 1 pm complete cloud cover, no wind. Continued cloudiness - for last several days a low pressure area over S. Cal. & clouds coming up coast clockwise - heavy snow on Grapevine Pass & general rain down there. 7:12 = 43° F.

19 Dec started light rain 3 am ±, at 9:30 am 45° F light steady rain at 10:30 am. Rain stopped about 1 pm. low clouds rest of day, etc.

20 Dec. cloudy at 7:30 am 2 sprinkles (large cold drops) at 9:30 am. 11:55 am steady, moderate rain. no birds except one towhee (RFF). 12:24 pm 46° F. = towhee, one dove & chickadee to feeder. Rainfall - 12:30 pm (including yesterday) is .55 in.

Christman
1988

Journal

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21 Dec., del Norte St., Berkeley, Alameda Co. Cal.
scattered cumulus clouds from SW
after nearly full cover. Sprinkles at
8 am, 45°F. light breeze. clouds all day
with a few showers.

22 Dec 8:40 am 42°F. started rain during
night at 7 am a good solid rain - the
rain gauge = .92" at this time since
yesterday early. slight wind By 10 am
let up to a light rain & 44°F. 1:04 pm
chunks of blue sky & sun out briefly. at 1:10
rain gauge .25; so this one storm = 1.17"!
4:23 pm clouds, cumulus from NW.

23 Dec high thin clouds, gray a.m., 9:13 am
38°F. Salvia - 3 in trees. Drive to
Palo Alto about 2 pm. a storm coming in

~~24~~ 24 Dec Rain over night and cumulus
clouds from N all day and several showers.

25 Dec more cumulus clouds in a.m. &
pretty well cleared up by noon. I left
P.A. at 2:15 pm with clear sky over the bay
and cumulus to thunderheads over the
hills especially in Alameda Co. Snow on
hills S of Tules Canyon - the Hamilton Range.
There were some loud thunderclaps early
last evening. Home by 3:30 clear, 58°F in
the sun. House is cold. 6:38 pm 36°F.

26 Dec clear, COLD, Frost on roofs,
etc 29°F at 6:30 am. noon 43°F a big
♂ Fox Sq. in feeding - the end of tail is
rather thin. 2:30 pm another ad Fox Sq - full
bushy tail. 4:20 pm high clouds on W horizon; 45°F
Rain fall from 23-25 Dec (while in P.A.) = .87" and
on.

Christman
1988

Journal

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27 Dec., del Norte St., Berkeley, Alameda Co., Calif
wake up at 6:30 to pecking of feeding doves
and rain drops! Rain, some rather moderate,
till 10:30 am. Then sky opened to scattered
cumulus clouds 11:28 am = 39°F. 12:10 pm
light cold sprinkles again. 2:23 pm since
daylight 3 separate showers with
breaks in between - large cold drops.
= 40°F. Only one robin activity today: doves
into feed early, house finches, chickadees &
juncos in at times. 4:42 pm clouds from N; 42°F
Rainfall = .54"

28 Dec wind during the night at daylight
wind & low cumulus clouds out at NE -
a stiff cold wind, at 9:30 am ~~34~~ 40°F. 1:04
pm fewer clouds, still a breeze but not
as strong. 39°F

29 Dec clear except for a few bands of high
clouds to W. At 8:30 = 32°F. Frost on roofs,
grass & cars. 9:25 am a big Fox Sq. in chases
off; kept coming back so caught it. Entire
W horizon is a band of haze - high clouds
(a storm is due in tomorrow & might
be an especially cold one). 10:07 another
Fox Sq. in - the one with thin end of tail.
11:17 am took Fox Sq. to Tilden Park, when I
got back the other one was in feeding. The
one caught was a ♂. 11:40 am The edge of
the high clouds/haze is almost overhead
3:50 pm just back from taking the last Fox Sq.
to Tilden - by theory this is the last of the local.
Let's see how long this habitat will be empty.

30 Dec scattered clouds 42°F at 9:19 am At
7:30 am a Fox Sq. came down the drain pipe.

30 Dec., del Norte St., Berkeley, Alameda Co., Calif
continued - it was as large as the 2 latest
caught. Clouded over at 9:30 am. and
a Fox Sq. going between elm trees up the
street! breeze from SW - clouds also
still broken cumulus 95% cloud cover.

11:am temp dropped to 46°F 11:15 am complete
cloud cover, 48°F . 12:15 sky a uniform
gray, intermittent breeze. The first sprinkles
1:30 pm light rain, now 3:37 moderate rain
only slight breeze. Rain lightened up by 5:30
pm total rain fall per the day = .32" at 6 pm.

31 Dec scattered cumulus clouds 4°F , not
as cool, but everything wet. Fox Sq in at 7:50
& left quickly - didn't go into trap 10 am clouds
- 90% + from N. almost complete cover at noon
2:40 pm almost clear, 45°F .

1 Jan 90% clear, 32°F frost on roofs clear
most of day & cool all day.

2 Jan. at 9 am 90% cloud cover; 80% clear at
10:30 am at 42°F . 11:51 am 47°F . Noon -
thin bands of clouds to SW to NE = 50°F .

2:09 pm mackerel sky streaks of blue to W. I
have not seen a Fox Sq. since yesterday (31). Not
in early this am. I mate too fast. It came
in at 3:48 pm - at 4:10 in oap. Will trap
tomorrow

3 Jan clear cool. 10:25 am 45°F . no wind. 10:40
pm Fox Sq. coming thru elms from the circle area
to N middle section of NW elm. came in about
noon. 4 PM - clear & windy.

4 Jan. clear, 10:48 am 42°F . Now there are 2 Fox Sq.
one considerably smaller than σ which is trap shy,
and is now jumping up to D-4 feeder & it is talking
to me - still clear at 4 pm 54°F . 4:30 pm mackerel
clouds to W.

- 5 Jan., del Norte St., Berkeley, Alameda Co., CA
started light rain about 1:30 am and
very heavy about 3 am = 1.08" scattered
clouds by 11 - 45°F. 3:32 pm. a few cumulus
from W. The Brall-Yankee Chantrel = 2
c-b chickadee & 5 House finches (2 ♂, one
very deep bright red). Then 2 juncos in Pittos
— they are always on the landing & now
perching where the H.F. frequently do.
- 6 Jan clear till 12:30 pm scattered cumulus
& some high clouds. 45°F. 1:23 pm almost
complete dark cumulus cloud cover. 1:30
— caught another Fox Sq. & took it to Tilden
(I hope this is the aggressive one than has
taken up hang on the feeder - D-4.) clouds
are lowering. 3:09 this storm front is
lower than most & seems to be from NW.
3:34 very light rain, briefly. — quit immediately
4:49 now shift - clouds from S. light rain by 6 pm
rain during the night. rain fall = .10"
- 7 Jan clear at 7:30 am except for banks of
fog over hills 35°F no frost about. Big
chunks of fog (or clouds?) from N to S. 10:47
am 40°F almost clear, some small cumuli
2:10 = 45°F A Fox Sq came in early & saw one
in oak/cedar at noon.
- 8 Jan light rain till 9 am cold & cloudy all day
caught a Fox Sq. just before dark
- 9 Jan cold & wet, a trace of rain; a Fox Sq.
came in — took the one I caught to Tilden.
overcast, at 11:23 am 47°F. Sq. trap to M. Erlich
- 10 Jan light rain till 8:30 am then variable
clouds 12:45 pm 51°F, a breeze, cumulus from N
and a few high clouds almost clear until 3 when
dark cloud over hills (NE), then a full 1/2 rain over
dark clouds, light rain 3:45 pm.

12 Jan., del Norte St. Berkeley, Alameda Co., Calif
clear cool (9:31 am = 42°F) & intermittent
breeze - a few high clouds on horizon -
basically clear & cool. 7 pm = 42°F

Rain Fall totals

Jan - 1987 =
Sept - Dec. 1987 =
Jan - May 1988 = 6.90"

13 Jan at 7 am scattered clouds at different
levels. 8:20 complete cloud cover - looks
like fog. 38°F. 9:13 Fox Sq. down sidewalk
to fiss big up st. elm on W side of street &
up trunk. Fog or clouds from W & S. 3:30 getting
darker - cloud cover all day. 4:06 light
rain - 7 doves, 2 juncos, 2 Br. towhees &
House Finches feeding. Lasted till 5 pm
then broken clouds.

14 Jan clear & cold 42°F at 11:11 am.

15 Jan scattered clouds cool, 45°F at 12:01 pm
Fox Sq. in at dawn. 12: fox sq. down st. to W
up st. elm - up it across NW elm to oak
should be here in 10 ± minutes. 12:08 a thud
on roof & Fox Sq. down drain pipe. 1 pm another
Fox Sq. - tail not as full.

16 Jan 9:54 am 42°F

17 Jan heavy low fog, cold; clear overhead at
noon & completely clear by 3 pm gone most
of day.

18 Jan 10 am = 49°F clear & warm. Fox Sq. in.

12:54 pm 60°F clear, high clouds to NW.

19 Jan clear, 10:14 am 56°F; high filing clouds to W
Fox Sq. in early.

Christman
1989

Journal

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20 Jan, del Norte St, Berkeley, Alameda Co., cal
hazy both high & low, high thin clouds
gentle S. wind.

21 Jan Fog all day; in late afternoon it was
clouds - not so cold. little activity

22 Jan cloudy all day. Frost all day.

23 Jan a light rain started about 1 am, continued
til 8 am \pm same wind, but rain gentle

Rainfall .45 Variable clouds from N, clearing 4 pm

24 Jan clear 43°F at 10 am high clouds to W.
Lots of dew last night, dripping from eaves.

25 Jan. clear, same wind at night, 8:48 am 45°F
long streamers of high clouds to W. 11:09 = 50°F
with more high clouds. 2:21 pm 58°F, breezy,
50% high clouds,

26 Jan clear, 49°F at 9:30 am breezy at night &
morning. 11:31 am 53°F, little breeze now.
Fot Sq. in to feed - persistent S.O.B.

Nice warm afternoon

27 Jan clear, cool, dew & fog about horizon
no doves in. At 8:28 = 37°F! 9:30 a
fair sized light brown bird flew fast &
50' over rd. to SW & landed in tree a
100 yds SW. Only 2 doves seen this
entire am. they flew w/ave. tops of trees
as an accipiter, hanging around?
10:23 am 44°F. band of haze - high clouds
NW-S., cast shadows now.

28 Jan high dull fog, 45°F. clearing by 1 pm
49°F. high clouds; fog returning at 3:30. 4:15 = 50°F
was up to 60 at 2:30 - little activity today.

Sunny low & then haze to SW at 4:30 overcast W-N.

29 Jan fog developed night; low dense fog at
7 am with Robins singing. 7:20 clear over head
7:45 a NE breeze, no fog! 5-10% cirrus. 9:55 53°F
10:30 am 8 \pm gulls rather low flying to NW.

Christman
1988

Journal

83

29 Jan., del Norte St., Berkeley, Alameda Co., Calif.

10:40 breeze larger, limb moving. a few cirrus clouds. 11 am ♂ Fox Spangled in. - one at 7:20 also. = 57°F 1 pm breezy clear for a few cirrus.

30 Jan 8:19 am 43°F. Clear & calm no fog no clouds. The pink plum tree 10' N of NW corner of house has been in bloom a week and the almond next door to G. is in white bloom! This tree is always spectacular. Have not seen Fox Sq. in elms, etc (oaks) for some weeks now. One or two come in to feed as yesterday about 3. So the ones I transplanted to Tilden have not been replaced as far as extended home range. 1:30 pm clear, now breezy - 60°F. no wind. This pm a morning cloak & Viceroy butterflies! 31 Jan low fog, 9:48 = 46°F 3:15 still foggy 50°F a very dull day.

1 Feb 8 am high cirrus, an anamorphous middle layer & a variable low cumulus cover. By 9 almost complete cumulus layer. at 10 getting darker - 46°F. little bird activity on down on aerial (TV) next door, one robin and a Kinglet in the oak. 10:45 am break in clouds with some sun - 48°F. 11:28 pm clouding over - wind from SW. Very brief shower. 3:30 48°F cumulus from NW. Seen no Fox Sq today. Sprinkles about 6 pm.

2 Feb variable cumulus clouds; several showers during night. at 8 am = 0.12" rain & 48°F everything wet. 10:30 - 12:30 steady light rain. Scattered cumulus clouds W-E, S to N. no breeze & dark, at 3:49 pm 47°F.

The first part of the report deals with the general situation of the company. It is a very important part of the report and it should be read carefully. The second part of the report deals with the financial situation of the company. It is also a very important part of the report and it should be read carefully. The third part of the report deals with the operational situation of the company. It is also a very important part of the report and it should be read carefully. The fourth part of the report deals with the future prospects of the company. It is also a very important part of the report and it should be read carefully. The fifth part of the report deals with the conclusions of the report. It is also a very important part of the report and it should be read carefully. The sixth part of the report deals with the recommendations of the report. It is also a very important part of the report and it should be read carefully. The seventh part of the report deals with the appendix. It is also a very important part of the report and it should be read carefully. The eighth part of the report deals with the bibliography. It is also a very important part of the report and it should be read carefully. The ninth part of the report deals with the index. It is also a very important part of the report and it should be read carefully. The tenth part of the report deals with the cover page. It is also a very important part of the report and it should be read carefully.

Quistman
1989

Journal

84

3 Feb., del Norte St., Berkeley, Alameda Co., Calif.
gentle rain off & on all night at
39°F. at 9 am = .55" rain since yester-
day at 8 am. Light rain off & on till 3 when
it was scattered cumulus. finer night

4 Feb scattered cumulus 7:30; by 9 am 90%
clear. 8 = 31°F; 9 = 34°F no frost or ice.
mixed clouds and cold. Total alt

5 Feb COLD; absolutely clear. gusts
of strong wind. Home at 1 pm = 38°F
outside.

6 Feb 28°F at 8 am, clear, gusty cold NE
wind. 11:12 am 35°F outside Temp always

7 Feb 9:54 am 33°F clear, windy. 2:49 pm
46°F still clear, windy & cold.

8 Feb heavy NE wind during night to noon
8 am high clouds; 10 am clouds thicker &
lower. Amazing wind from NE; clouds from
the SW. 11:23 42°F outside. Fox Sq. have been
in infrequently; none seen lately in oak on
the elms. 1 pm - wind direction must have
shifted - the jet planes were coming
in on approach pattern to the south.
getting darker. First sprinkles at 1:18 pm!
still breezy. Moderate rain, 39°F, light wind.

3:36 pm windy still, 33°F, puddles about
town. Rain lightened up to sprinkles by

3:48. Rain tapered off - Rain to 6 pm =

9 Feb 10:32 am. cloudy, 39°F. doudy &
windy to 8 am. light rain began at 8
am, no wind. 11:30 am no wind, no rain
Rain up to noon = .43" 12:30 pm light rain
no wind. 1:39 sun out thru hole, still clouds.

This storm is from SW, the LOW off So. Calif.

Fox Sq. in & fed on soggy whole wheat bread pieces
3:14 pm 50% clear, cumulus from S.

Christman
1989

Journal

85

9 Feb., del Norte St., Berkeley, Alameda Co., CA
4pm 65% clear. in herb patio = 50°F

10 Feb scattered medium clouds, hazy, low
dew pt. last night, not cold, 44°F at 10 am.

1pm high thin cumulus, same sun, 50°F, no
wind. 3:16 heavier & darker cumulus; some ^{Wales} in

11 Feb clear, fog over bay 9 am = 39°F. no wind

The sycamore trees (plane) around N. Berk
library & on Main ave. have shown new
green leaves on a branch or so far at least
a month now. Today many more trees
have more branches with green leaves.
A reaction to drought?

10:10 am. chunks of fog getting higher & clearer
SW to NW; now at this angle over tops of
trees. 43°F. Noon = fog horn still from W.
Some towering cumulus to WNW & the first
feathery cirrus cloud to NE. 2:30 pm
cumulus from N & more cirrus. 50°F. sunny.

12 Feb clear, small billowing cumulus far to WNW
45°F. a bright beautiful day, high 60's of low
cumulus to N.

13 Feb clear, no bay fog, 42°F (9 am) slight breeze
a fox sq. with 1/2 + tail in briefly chased off.
a strange call "Seep" repeated, high, full.
or "Sue, Sue" almost like a bluebird.

small birds flying overhead, all directions.
afternoon Hutton Vireo. 4:43 PM - for the first
time the "spring" a very mobile flock of small
insects hovering between my desk & the OAK
within 8' of oak. very small.

14 Feb, clear, cool, 43°F at 10 am, hazy low on
horizon. 10:45 am Fox sq on branch of near cedar
30' up on 6" limb, 5" from trunk in sun. Twice
yesterday the oak moved as if Fox sq in it, but didn't
see it. How many are there now?

Christensen
1989

Journal

86

14 Feb., del Norte St., Berkeley, Alameda Co., CA
many clusters of white flowers about to
open on the Pittosporum 15' NW of my desk.
also many insects flying about tree.
Lots of bright green leaves, new, on these
the trees too!

15 Feb hazy, some high cirrus 47°F at 11:30 am
down town all am. early PM, W. apart 2
large gulls flying low, from SE to NW & W.
2:55 pm a bank of high piling clouds to W. hazy
still, slight breeze.

16 Feb clear, high thin clouds & haze, 8:30
45°F. hazy clear at 11 am. - 50°F. 2 pm
bank of high clouds to W. more cirrus SW-NW.

17 Feb 45°F at 9 hazy high clouds on & off all day

18 Feb overcast, a very light mist at 8, same
wind. 50°F at 10 am. 11 am very light rain
light rain until 3 ± pm then a bit heavier.

19 Feb cumulus lower 90-95% everything
wet, sun out periodically in am. 54°F = 10:40
am. Noon - 2 Fox Sq. running three oak into
cedar. up in 60°s in afternoon clear.

20 Feb Fog, 53°F at noon & some bits of blue
at 11:30 am. by 1 a bank of high clouds to W, by
3:30 pm high cirrus, haze & make over clouds

21 Feb scattered cumulus clouds from S, at
9:30 am 54°F. Fox Sq. on trunk of 2nd elm
up st. 9:45 one came in - chased off. One is
chattering. Sun obscured 90% + cloud cover
thicker cumulus. 10:19 Fox Sq. in clases up st
elm (W side) one one of main trunks - another 2?
It then went to lower part of W elm and running
about limbs 9" - 3" diam. Then up to within 15-20'
of top on 2" - limbs very active. 12:22 50% blue
& 61°F. 1:05 pm 95% cloud cover vague shadows.
almost clear, then by 1:40 high hazy clouds

Christman
1989

Journal

87

21 Feb., del Norte St., Berkeley, Alameda Co., Calif
2:27 pm clear now except for a bank of
hazy clouds (?) to W. & few cirrus.

22 Feb. To MVZ 8:30 to noon Talked to Frank
Pitelka - no comment on prominent perch,
but liked idea of where birds fed in the
arb - warbler, chickadee, Kinglet &

Overcast - about noon a light drizzle
at 1 pm a light rain - enough to wet
street & etc. no rain by 1:15 pm. By 3 fairly
clear 50% high 50° 50° F.

23 Feb 80+% clear 39° F at 7 am. At 8 clear to W-N
but high clouds to S. 1:49 pm sunny few cirrus
54° F clear all of the noon; 6:02 = 49° F, 98% clear.

24 Feb. variable clouds from SW; 8:14 = 45° F
broken overcast at 10 am. Same all day.

25 Feb Satur. Variable clouds - all kinds from
S. a sudden shower at 8:30 on Salano. at
9 am 50° F. few drops here. 9:30 getting darker,
N-S to W is 100% cloud cover, no wind. 10 am
a variable wind & light sprinkles. Small Fox Sq.
with 2/3 tail. Lightened up in 15 min. then higher
altostratus, 75% clouds. 11:45 am 58° F outside.
6:19 sundown awhile - 1/4 there is broken clouds.

26 Feb 10:21 am a clear quiet day; 55° F.
noon still clear; 60° F off to SW a bank of hazy clouds
1:01 pm 3 gulls circling higher, higher to NW.

27 Feb 9:35 clear, 51° F few high clouds S.
Yesterday at 4+ pm Fox Sq with short tail
in clus down st. eating new growth near
end of branches also saw one up the st
in elm.

1 Mar cloudy at 7 am. light sprinkles at 1 pm
3:30 more sprinkles & heavier. 3:45 its now an
'official' rain. Consistent moderate rain all night

2 Mar by 8 am = 1.49" of rain fall.

Christman
1989

Journal

88

2 Mar., del Norte St., Berkeley, Alameda Co., Calif
clouds moving thru from SW. after
draps. after noon more wind & clouds
moving faster; few small patches of blue.
1:50 pm = 46°F outside. 6:30 clear ahead,
bank of clouds to W-NW. = 41°F outside.

3 Mar Clear cool, back from MVZ 1:30 pm
54°F. bank of cirrus clouds NW to S, all afternoon

4 Mar. overcast at 7:30 am 45°F, very light
sprinkles at 9 am. General light rain by
11 am. Fox & sq. full tail in rain feeding on
sunfl. seeds. noon - very slight rain. The
rain stopped by 2 pm. 4 pm cloud cover getting
uniform gray & darker - some sun out at 2:30.
5:15 a little wind & rain again - lite 46°F
7:15 light rain; 42°F.

5 Mar light rain began 6 am moderate
by 8; stopped about 9, rather wet & foggy.
rain in night - ? .17" rain

6 Mar overcast - a break briefly at noon -
2:06 = 59°F. rain gauge = .28" since ^{yesterday} noon
light rain began at about 2 pm.

7 Mar a low heavy fog. cleared by noon
with hazy high clouds & cumuli. Saw a
partial eclipse of sun 9 ± am, at 1:30 pm
at home consistent cloud cover. 2:30 first
light sprinkles, by 3 a moderate-light rain,
56°F. 3:44 in rain = chidabee Pittos. to feeder,
House finches in tops of elms, towhees on
utility line. .10 rain from last to 8 am 8th
8 Mar light to moderate rain all am = .24" by
noon. 6:04 solid cloud cover.

10. 11. 1918

1992

[Faint handwritten text at the bottom of the page]

Journal

9 Mar., del Norte St. Berkeley, Alameda Co., CA.
 low cloud cover, 9:55 = 56°F same rain
 no rain. 10:30 am very light rain & wind
 106 suddenly a general down pour
 with wind. - over in 5 minutes! 2:05 pm
 another shower. 2:08 a huge, tho
 very strong, cur flight of robins &
 cedar Waxwings from W to E. no tight
 flocks - these! trace of rain

10 Mar. cloudy 3 pm = 64°F
 a brief spat of rain (a shower) at 2 pm
 from SE. moderately heavy shower at 4:30

11 Mar. at 7:30 am sun out - variable clouds
 (cumulus). Rain most of night = .92". at
 9:06 = 56°F. Sun to E; all clouds S-W-N!
 noon - almost clear! 1:50 sunny 95% clear,
 = 59°F. 2:53 bank of fog off coast & chunks
 of fog materializing almost overhead &
 moving NE, 4:05 pm high fog cover; 62°F
 4:18 fog lower to top of up st cedar 54°F.

12 Mar. low fog at 7:30 am. essentially clear
 by 9 with a fog bank far to W & one small
 linger of cirrus to S. 10:36 = 55°F. caught
 a Fox Sp. - to Tilden. 12:22 pm huge thunder
 heads forming in Marin or Sonoma
 county to the NW. (this since about 10:30)
 1:08 pm cirrus - feathery from S; thunderheads
 moving N more. = 58°F. 4:41 pm clouds & fog
 coming in over 50% cover 58°F.

13 Mar. shower last night (2 am ±) under
 .05. 7 am scattered clouds; 9 am cumulus from NW
 & 48°F. a clear warm day - almost spring. 70's
 Fox Sp. feeding way out on horiz. branch, N end of W. elm

The first of these is the fact that the
 government has been unable to raise
 the necessary funds to carry out its
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17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32-33-34-35-36-37-38-39-40-41-42-43-44-45-46-47-48-49-50-51-52-53-54-55-56-57-58-59-60-61-62-63-64-65-66-67-68-69-70-71-72-73-74-75-76-77-78-79-80-81-82-83-84-85-86-87-88-89-90-91-92-93-94-95-96-97-98-99-100-101-102-103-104-105-106-107-108-109-110-111-112-113-114-115-116-117-118-119-120-121-122-123-124-125-126-127-128-129-130-131-132-133-134-135-136-137-138-139-140-141-142-143-144-145-146-147-148-149-150-151-152-153-154-155-156-157-158-159-160-161-162-163-164-165-166-167-168-169-170-171-172-173-174-175-176-177-178-179-180-181-182-183-184-185-186-187-188-189-190-191-192-193-194-195-196-197-198-199-200-201-202-203-204-205-206-207-208-209-210-211-212-213-214-215-216-217-218-219-220-221-222-223-224-225-226-227-228-229-230-231-232-233-234-235-236-237-238-239-240-241-242-243-244-245-246-247-248-249-250-251-252-253-254-255-256-257-258-259-260-261-262-263-264-265-266-267-268-269-270-271-272-273-274-275-276-277-278-279-280-281-282-283-284-285-286-287-288-289-290-291-292-293-294-295-296-297-298-299-300-301-302-303-304-305-306-307-308-309-310-311-312-313-314-315-316-317-318-319-320-321-322-323-324-325-326-327-328-329-330-331-332-333-334-335-336-337-338-339-340-341-342-343-344-345-346-347-348-349-350-351-352-353-354-355-356-357-358-359-360-361-362-363-364-365-366-367-368-369-370-371-372-373-374-375-376-377-378-379-380-381-382-383-384-385-386-387-388-389-390-391-392-393-394-395-396-397-398-399-400-401-402-403-404-405-406-407-408-409-410-411-412-413-414-415-416-417-418-419-420-421-422-423-424-425-426-427-428-429-430-431-432-433-434-435-436-437-438-439-440-441-442-443-444-445-446-447-448-449-450-451-452-453-454-455-456-457-458-459-460-461-462-463-464-465-466-467-468-469-470-471-472-473-474-475-476-477-478-479-480-481-482-483-484-485-486-487-488-489-490-491-492-493-494-495-496-497-498-499-500-501-502-503-504-505-506-507-508-509-510-511-512-513-514-515-516-517-518-519-520-521-522-523-524-525-526-527-528-529-530-531-532-533-534-535-536-537-538-539-540-541-542-543-544-545-546-547-548-549-550-551-552-553-554-555-556-557-558-559-560-561-562-563-564-565-566-567-568-569-570-571-572-573-574-575-576-577-578-579-580-581-582-583-584-585-586-587-588-589-590-591-592-593-594-595-596-597-598-599-600-601-602-603-604-605-606-607-608-609-610-611-612-613-614-615-616-617-618-619-620-621-622-623-624-625-626-627-628-629-630-631-632-633-634-635-636-637-638-639-640-641-642-643-644-645-646-647-648-649-650-651-652-653-654-655-656-657-658-659-660-661-662-663-664-665-666-667-668-669-670-671-672-673-674-675-676-677-678-679-680-681-682-683-684-685-686-687-688-689-690-691-692-693-694-695-696-697-698-699-700-701-702-703-704-705-706-707-708-709-710-711-712-713-714-715-716-717-718-719-720-721-722-723-724-725-726-727-728-729-730-731-732-733-734-735-736-737-738-739-740-741-742-743-744-745-746-747-748-749-750-751-752-753-754-755-756-757-758-759-760-761-762-763-764-765-766-767-768-769-770-771-772-773-774-775-776-777-778-779-780-781-782-783-784-785-786-787-788-789-790-791-792-793-794-795-796-797-798-799-800-801-802-803-804-805-806-807-808-809-810-811-812-813-814-815-816-817-818-819-820-821-822-823-824-825-826-827-828-829-830-831-832-833-834-835-836-837-838-839-840-841-842-843-844-845-846-847-848-849-850-851-852-853-854-855-856-857-858-859-860-861-862-863-864-865-866-867-868-869-870-871-872-873-874-875-876-877-878-879-880-881-882-883-884-885-886-887-888-889-890-891-892-893-894-895-896-897-898-899-900-901-902-903-904-905-906-907-908-909-910-911-912-913-914-915-916-917-918-919-920-921-922-923-924-925-926-927-928-929-930-931-932-933-934-935-936-937-938-939-940-941-942-943-944-945-946-947-948-949-950-951-952-953-954-955-956-957-958-959-960-961-962-963-964-965-966-967-968-969-970-971-972-973-974-975-976-977-978-979-980-981-982-983-984-985-986-987-988-989-990-991-992-993-994-995-996-997-998-999-1000-1001-1002-1003-1004-1005-1006-1007-1008-1009-1010-1011-1012-1013-1014-1015-1016-1017-1018-1019-1020-1021-1022-1023-1024-1025-1026-1027-1028-1029-1030-1031-1032-1033-1034-1035-1036-1037-1038-1039-1040-1041-1042-1043-1044-1045-1046-1047-1048-

1. The first part of the paper is devoted to a discussion of the general principles of the theory of the structure of the atom. It is shown that the structure of the atom is determined by the laws of quantum mechanics, which are based on the principle of the uncertainty of the position and momentum of the particles.

[The handwriting in this section is extremely faint and illegible.]

14

14 Mar, del Norte St., Berkeley, Alameda Co., Calif.
clear 9 am: 46° F. very little wind. 7:34 am
Fox Sq. on ledge highly (trap stuck in
the car). 12:45 pm 55° F.

15 Mar clear, 9:04 am 44° F clear & cool
all day. Fog bank over SF - Marinco hills
& puffs are materializing to western sky
& piling up on hills to N & E. 6:36 pm after
sunset, almost dark, only scattered bits of fog to N.

16 Mar. 2 am raining on to 9 \pm then partial
clearing - a good solid rain = .94" at
9 am. 1 pm bright sun & deep blue sky with
fluffy cumulus clouds - will be thunder-
heads building up soon.

17 Mar. trace of rain last night. Scattered
cumulus clouds early. By 8:30 high cirrus
as an overcast, dull sun. Variable clouds
all day. Platanus & ycamore trees in this
area. - Marine etc. are almost completely
leafed out now - rapidly this past week

18 Mar light rain at 2 am.; light to
moderate 6-9 am. 11:15 am a good
moderate drenching. Saw bees out in
it, hence. finches under branches of
Pittos. The Pittosporum is blooming (small
white flower clusters) on NE side of tree.
Rain last night to noon = .66"

cloudy all afternoon with a light drizzle.
4:24 pm. now a light rain.

19 Mar light rain over night; to 8:30 = .53"
low clouds & fog with drizzle. Fox Sq.
either 1 in twice or two! 1 dove in early.
11 am first sun & shadows; clouds are breaking
up!

Christman
1989

Journal

91

20 Mar., del Norte St., Berkeley, Alameda Co., Calif.
clear; 53°F at 8:45 am. 11:11 am 62°F outside
Fox sq (in to feed at 8:30 am) now in up st
climb. clear until 12:20 then cirrus clouds in
lower band N-S to the W.

21 Mar clear with clouds to W at 3:30 am
at 7 am complete fog cover, 9:37 am 59°F .
about 9 fog lifted to mid level cumulus cloud
cover, generally dull shadows. 1:57 = 65°F outside.
2:30 pm same long low patches of blue to
SW & W. still very diffuse shadows. 4:05 pm
fog over bay; bright sun, far fewer clouds.

22 Mar. Fog. 9 am = 54°F full moon thru
the fog in early am. Robin singing 4-5
am & excited "chucks". By 11 practically
clear - bands of diffuse cirrus to W. a lot of
haze in afternoon - fog coming in by 4 pm
cirrus overhead.

23 Mar 7 am, same patchy fog, cirrus and
mid level cumulus. 8 am general
overcast 8:34 = 48°F Fox sq on landing
3:37 pm. low cloud cover - feels like rain
but its light to SW. 5:40 PM light sprinkle
of rain. 54°F ; 6:07 a good straight down rain.

24 Mar rain all night .93" at 8 am, when
it had stopped - complete cloud cover
at 52°F . 9-10 am variable cumulus clouds to
NE same blue & some sprinkles. clouded
over & light sprinkles at 7

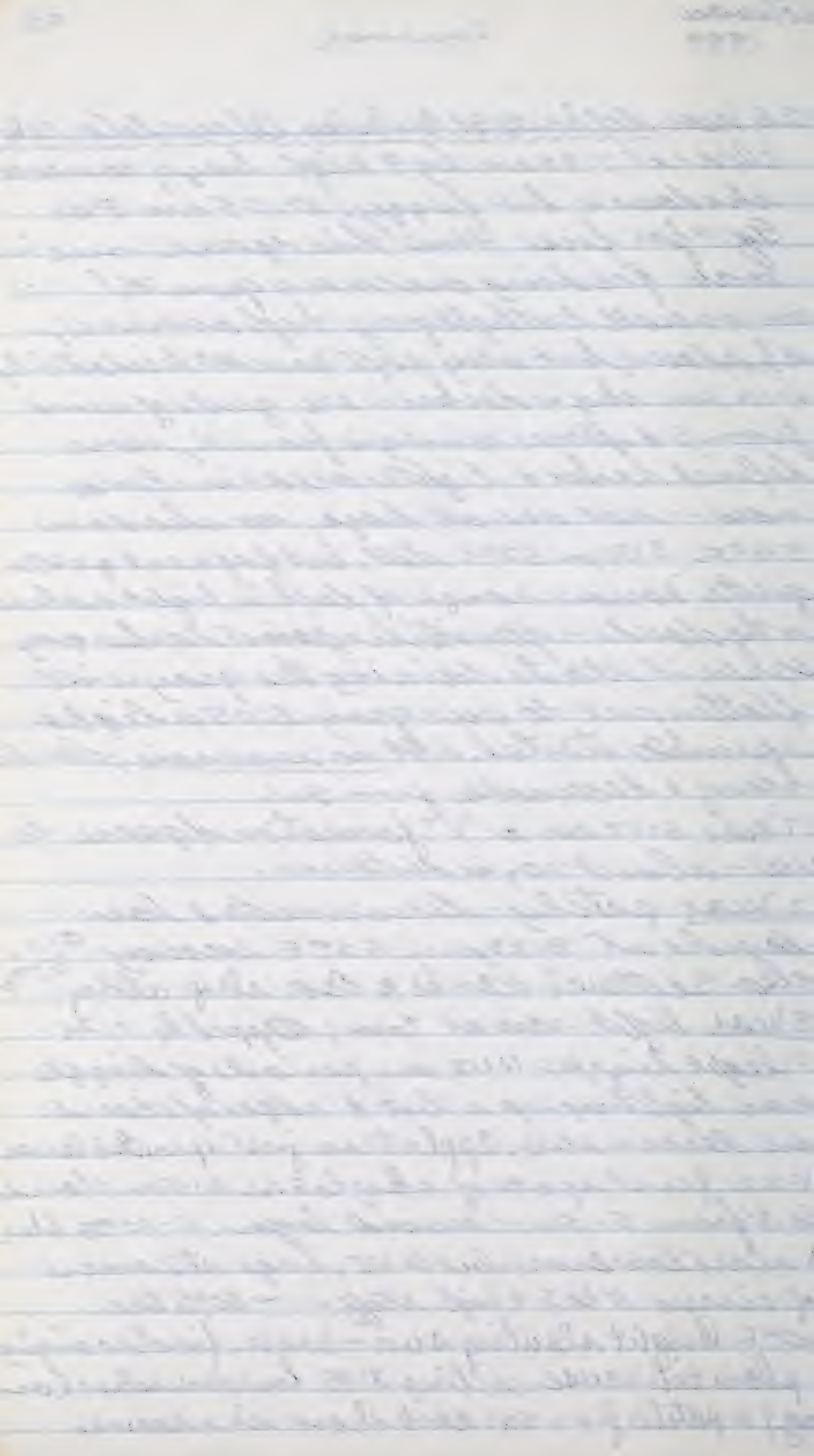
25 Mar heavy rain at 6 am - heaviest in 3
years. Rain stopped at 7:30 am, scattered
cumulus - .80" over night & overcast
again - rain to SW. 52°F outside 3 pm almost clear
at 57°F 4:30 wind, 52°F and spotty cumulus

Christman
1989

Journal

92

26 Mar., del Norte St., Berkeley, Alameda Co., Calif.
clear at 7:30 am. by 9 high hazy overcast
shadows a bit fuzzy. 10:05 am Fox
Gg. = for first time this year one in
oak feeding on new growth! 11:13
am. overall dull light gray high overcast, -
shadows, but very soft. now no bird activity.
1:14 pm sky is darker - 2:10 gusts of wind
from S & planes coming in from N, more
defined darker & lighter areas in clouds
now - not overall haze, no shadows
54°F. 3:06 pm 52°F still, but frequent gentle
gusts. narrow range of dark in light values
in the clouds - often ~~white~~ against darker gray
when it starts raining the gray will
flatten out to one gray. 6:05 a light
sprinkle started. 6:44 no real rain; clouds
heavy & discernable from SW.
27 Mar 6:17 am a "V" formation of geese to
NW - about 10, in distance.
27 Mar patchy - disconnected low
clouds at 8:23 am 52°F sunny 5:11 =
also. scattered clouds & clear sky all day 55°F
28 Mar light rain at 7 am; stopped by 7:45
9: light drizzle. 11:12 am periods of drizzle
now lighting up a bit & edges of clouds
are discernable. Apple tree just sprouted leaves.
1:22 first spots of sky to SW. 2:15 pm clouds
to N from S - SW - several layers. 5-10% blue.
3 mas low cumulus to NE; huge streamers
of cirrus N to S. & high stuff - - 50% blue
60°F bright slanting sun - house finches singing
& plain titmouse calling. 3:45 low cumulus (or
fog) in patches from SW. dark sharp shadows.



Christman
1989

Journal

93

28 Mar., ~~Adelaide St., Berkeley, Alameda Co., Cal.~~
at 6pm .79 inch rain - not that much
in it last night, storm i.e., from last storm
as a cat pissed in it. *puen sahe*.

29 Mar buds on terminals on all elms
clear at 8:30 am 48°F. 10:16 am = 53°F *Faintly*

30 Mar 10:51 am - 54°F Mainly clear with
few cirrus from SW. Since 2 pm more
periods of high hazy cirrus 4:29 a Fox sp. ran
down sidewalk from elm up st to W. elm.
Then another in the up so elms going W. then at
6:27 for the last 1/2 hr. horizontal bands of
cirrus SW to NE. A storm due tomorrow
probably not much.

31 Mar. low over cast with just a hint of
a mist. 8:26 = 53°F "fog" level 200 yds
up the hill. More bird activity this a.m.
robins, house finches & towhees. as of 9 am
no small stuff - chickadees, titmouse or
warblers. 11:53 am patches of blue to S-W.
high cirrus, cumulus & low fog stuff.
Left about 12:30 for Palo Alto

1 April - returned home at 1:30 overcast of
all level of clouds except fog. 1:45 = 56°F.

2:25 pm light sprinkle. 4:16 big drops for
a while but no real rain. stopped by noon.
sprinkles again at 6:30

2 Apr. fog or low clouds. 53°F 10:15 am fog
now low - tops of elms & up so cedar are
gray - not sprinkling or drizzle though.
Only a trace (.05 ±) of rain last night.
a brief shower, then raised a bit, minor clearing
to the W. highlands above these ~~clouds~~ ^{fog}.

DAY LIGHT SAVING TIME

1000
1000

1000 1000 1000

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1989

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3 Apr. del Norte St., Berkeley, Alameda Co., cal.
clear, high cirrus to NE 48°F . Mainly
clear - a few streamers of cirrus mid-day
into 70°F 's this pm.

aside from towhee & a few house
finches no bird activity today! are
they all building nests - ?

4 Apr. clear 9:30 am 57°F 3 pm 72°F
whiffs of cirrus from W. Very quiet
day. 6:56 pm 74°F bands of high cirrus W-NW.
same doves in + 2 house finches in NW elm.
It's been a very quiet day - today saw
a small very dark swallow tail B & a viceroy
or monarch fly by - guess it's spring!

5 Apr. clear & warm early - 2:55 pm 82°F
occasional breeze from E. a few high
cirrus at 7:40 pm = 78°F Record temps all about.

6 Apr. clear - out in sun hot by 9 am only
 65°F here in shade 11:45 am - monarch
over oak then under NW elm

7 Apr. clear & hot all day - in 80's OUT AND DAY.
apple in pink blossoms on the 5th, open today

8 Apr. clear going to be hot again.

[on the 4th Apr. the new pink blossoms on
the apple tree appeared. now open - white.

1:51 pm monarch butterfly - low to NW
below level of oak - just above apple tree.

2:51 86°F . first Tipulidae flying, bathos

9 Apr. clear, but for high cirrus W to N. 62°F

at 8:24 am. bands of high cirrus SW to N at

6:34 pm = 74°F

10 Apr. clear, dew dripping from roof; at 8:20

- 54°F . no high clouds. 12:30 a little hazy &

high clouds to W; 62°F . a nice breeze

The first part of the paper is devoted to a discussion of the
 various methods which have been employed for the determination of
 the rate of reaction. It is found that the most reliable method
 is that of measuring the change in concentration of one of the
 reactants or products. This method is based on the fact that the
 rate of reaction is proportional to the change in concentration
 of the reactants or products per unit time. The rate of reaction
 can be determined by measuring the change in concentration of
 one of the reactants or products at different times. The rate of
 reaction is then calculated from the slope of the graph of
 concentration against time. The rate of reaction is found to be
 independent of the concentration of the reactants. This is in
 agreement with the theory of reaction rates. The rate of reaction
 is also found to be independent of the concentration of the
 products. This is also in agreement with the theory of reaction
 rates. The rate of reaction is found to be independent of the
 temperature. This is also in agreement with the theory of
 reaction rates. The rate of reaction is found to be independent
 of the pressure. This is also in agreement with the theory of
 reaction rates. The rate of reaction is found to be independent
 of the catalyst. This is also in agreement with the theory of
 reaction rates. The rate of reaction is found to be independent
 of the solvent. This is also in agreement with the theory of
 reaction rates. The rate of reaction is found to be independent
 of the concentration of the reactants. This is also in agreement
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 to be independent of the concentration of the products. This is
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 reaction is found to be independent of the catalyst. This is also
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 reaction is found to be independent of the solvent. This is also
 in agreement with the theory of reaction rates.

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1989

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10 Apr., ~~del Norte St.~~ Berkeley, Alameda Co., CA
Entire S-N sector high dense clouds, at 6:30
temp. 60°F.

11 Apr. 50° clear at 8:30; haze to W.
Yesterday caught Valheman wildbird
seed & 10 lb.) & 5 lb. of chicken scratch -
no sunfl. seeds. Put one deck -
down in; think Fox sq. ate the cracked
corn. 11:30 am long thin cirrus N-S off to W
and 60°F. 4:12 pm 2 (perhaps 3) Fox sq. foraging
in the oak.

12 Apr. Fog, at 8:19 am 51°F. The elms
are now 3/4 leafed out which changes
the entire aspect of my view. It is now
predominantly green. 10:41 am 2 Fox sq.
in an landing a thin one with 1/3 tail
gone that did some scratching & a
heavier one with full tail - same
ones that were in oak yesterday &
this. am. still fog - 58°F. Noon -
brighter out, but very indistinct shadows.
12:28 another Fox sq. thin, back dark with
a long, thin tail 2-3:30 broken fog &
high & mid level clouds 70°F; same wind.

13 Apr. 9:37 am Fog, 51°F. 10 am - lots of
windy movements of trees. Not alot of
bird activity 11:03 Fox sq. ♂ feeding in top
of oak - what are they eating? 12:13 pm
still fog in from W. 57°F. 3:28 fog, 60°F.

6:30 some sun from W but broken fog
65°F. little bird activity - doves, HF, 1 Jay - ^{few} robins

14 Apr. Fog; 52°F at 9:38 am 11:28 am a Fox sq. has
been feeding actively in oak, E side 7' from top -
entire limbs move - unlike even jays

Handwritten text on lined paper, likely a letter or journal entry. The text is written in cursive and is mostly illegible due to blurring. The page number '178' is visible in the top right corner.

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14 Apr., Del Norte St., Berkeley, Alameda Co., Calif.
The Fox Eg broke off a small $\frac{1}{4}$ " branch
& carried it 24" into a dense part of vertical
branch - much movement - a like
size branch fell 3' & ledged on branch
do it building a nest? Then it disapp-
eared. Can't see "nest" - area is level
with my eyes.

15 Apr 6:22 am sky dull overcast blue-dark
in foreground - robins singing since
4:13; towhees, jays calling & doves coo-
ing. Fog, 8 am Fox Eg. foraging in 5 pines at oak 18'
up. Noon - some overcast - sun out thru holes
1:30 clear - hazy, especially to W, some high clouds from
SW. 7:04 Eg in oak. 4: fog coming back in huge globs
from the west; still sunny. Towhee, doves ^{to feed} & H.F.

16 Apr fog until 12 \pm now scattered fog
but sun is out 58°F. Fox Eg. has spent
most of day feeding in the oak. 3:08 pm
high clouds in chunks & whiffs of fog.

4:27 pm breeze, a small swallow-tail B.
thicker high clouds and fog 100% to NE & E.

17 Apr breezy fog at 10:30 am = 53°F Fox
Eg. in oak & another on landing. By 3
pretty much over & continued until dark.

18 Apr half fog half blue at 8 am continued
clearing, at 9:30 = 55°F. clear all day; 7:03 lots
of high clouds - hazy sun.

19 Apr high clouds from SW; fog over hazy fog
hours last night. 8:36 - 56°F. hazy clear with
high clouds

20 Apr high fog, 54°F at 8:30. 10:10 sun out
& hole in fog high - hands of high clouds. 11:30 am
hands of hazy high clouds & sun. 60°F

The first of the month was a very fine day. The sun was shining brightly and the wind was light and pleasant. We went for a walk in the park and saw many beautiful flowers. The children were very happy and played for hours. We also had a picnic under a big tree. The food was very good and we all enjoyed it. The day was very pleasant and we all had a good time.

The second day was also very fine. The sun was shining and the wind was light. We went to the beach and played in the sand. The children were very happy and played for hours. We also had a picnic on the beach. The food was very good and we all enjoyed it. The day was very pleasant and we all had a good time.

The third day was a very fine day. The sun was shining brightly and the wind was light and pleasant. We went for a walk in the park and saw many beautiful flowers. The children were very happy and played for hours. We also had a picnic under a big tree. The food was very good and we all enjoyed it. The day was very pleasant and we all had a good time.

The fourth day was also very fine. The sun was shining and the wind was light. We went to the beach and played in the sand. The children were very happy and played for hours. We also had a picnic on the beach. The food was very good and we all enjoyed it. The day was very pleasant and we all had a good time.

The fifth day was a very fine day. The sun was shining brightly and the wind was light and pleasant. We went for a walk in the park and saw many beautiful flowers. The children were very happy and played for hours. We also had a picnic under a big tree. The food was very good and we all enjoyed it. The day was very pleasant and we all had a good time.

The sixth day was also very fine. The sun was shining and the wind was light. We went to the beach and played in the sand. The children were very happy and played for hours. We also had a picnic on the beach. The food was very good and we all enjoyed it. The day was very pleasant and we all had a good time.

The seventh day was a very fine day. The sun was shining brightly and the wind was light and pleasant. We went for a walk in the park and saw many beautiful flowers. The children were very happy and played for hours. We also had a picnic under a big tree. The food was very good and we all enjoyed it. The day was very pleasant and we all had a good time.

The eighth day was also very fine. The sun was shining and the wind was light. We went to the beach and played in the sand. The children were very happy and played for hours. We also had a picnic on the beach. The food was very good and we all enjoyed it. The day was very pleasant and we all had a good time.

The ninth day was a very fine day. The sun was shining brightly and the wind was light and pleasant. We went for a walk in the park and saw many beautiful flowers. The children were very happy and played for hours. We also had a picnic under a big tree. The food was very good and we all enjoyed it. The day was very pleasant and we all had a good time.

The tenth day was also very fine. The sun was shining and the wind was light. We went to the beach and played in the sand. The children were very happy and played for hours. We also had a picnic on the beach. The food was very good and we all enjoyed it. The day was very pleasant and we all had a good time.

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20 Apr., Del Norte St., Berkeley, Alameda Co., CA
1 pm caught a smaller Fox Sq; i.e., then
the 2 adults. to tilden Park same area.
still high cirrus from SSW; fog off
coast - just beyond G. G. Bridge; after
cumulus to NW in Marin Co. 1:27 pm

Fox Sq in mast N part of oak running about
in small branches then jumped to line
& walked 12' & went into Pittos.

Elms, etc. in full leaf, including apple which
still has white blossoms. The 12' linden
tree 5' from deck steps has two branches
with 1" leaves just out - this tree is
last to lose leaves & last to come
out in leaf. 3:30 - 4:15 wispy cirrus & small chunks
of fog: 70° & in sun. rain = 14"

21 Apr. light rain & wind at 6:45 am good
rain for awhile - stopped by 7:30 good
cloud cover - going N. 8:27 = 53°F. 9 am =
brief shower. 10 am clear to W. 11 am bright
sun, white cumulus & few towering clouds.
= 56°F. Very breezy. 2:31 pm sky markedly
clear. Fox Sq. made opposite me - first I've
seen today. It moved to a group of
dead leaves & branches 1' & around - it
was being worked on last week (?) -
then the Fox Sq. went into it - a nest!
came out 2:34 & into canopy. The opening
is toward E side - facing me. a ♀?

4:45 62°F clear, but far off a small cumulus.
Very heavy cumulus the variable clouds, sun,
at 6:38; 6:52 heavy fast moving cumulus to N
dark with strong breeze - heavy birds moving
7:07 pm quick shower. heavy variable clouds -

The first thing I noticed when I stepped
 out of the plane was the crisp, cool air.
 It felt like a fresh blanket after a long
 journey. The landscape below was a patchwork
 of green fields and small villages, dotted
 with red-roofed houses. The sun was
 just beginning to set, painting the sky in
 soft shades of orange and pink. I took a
 deep breath, savoring the moment. This was
 the start of a new adventure, a journey
 I had been dreaming of for so long. The
 road ahead was long and winding, but I
 was ready for whatever came my way. I
 glanced at my watch; it was already
 dark. I would have to find a place to
 stay for the night. The first village I
 reached was small and quiet. I found a
 simple inn with a warm fire burning in
 the hearth. The innkeeper, an elderly
 woman, welcomed me with a friendly
 smile. She showed me to a cozy room
 with a view of the stars. I lay in bed,

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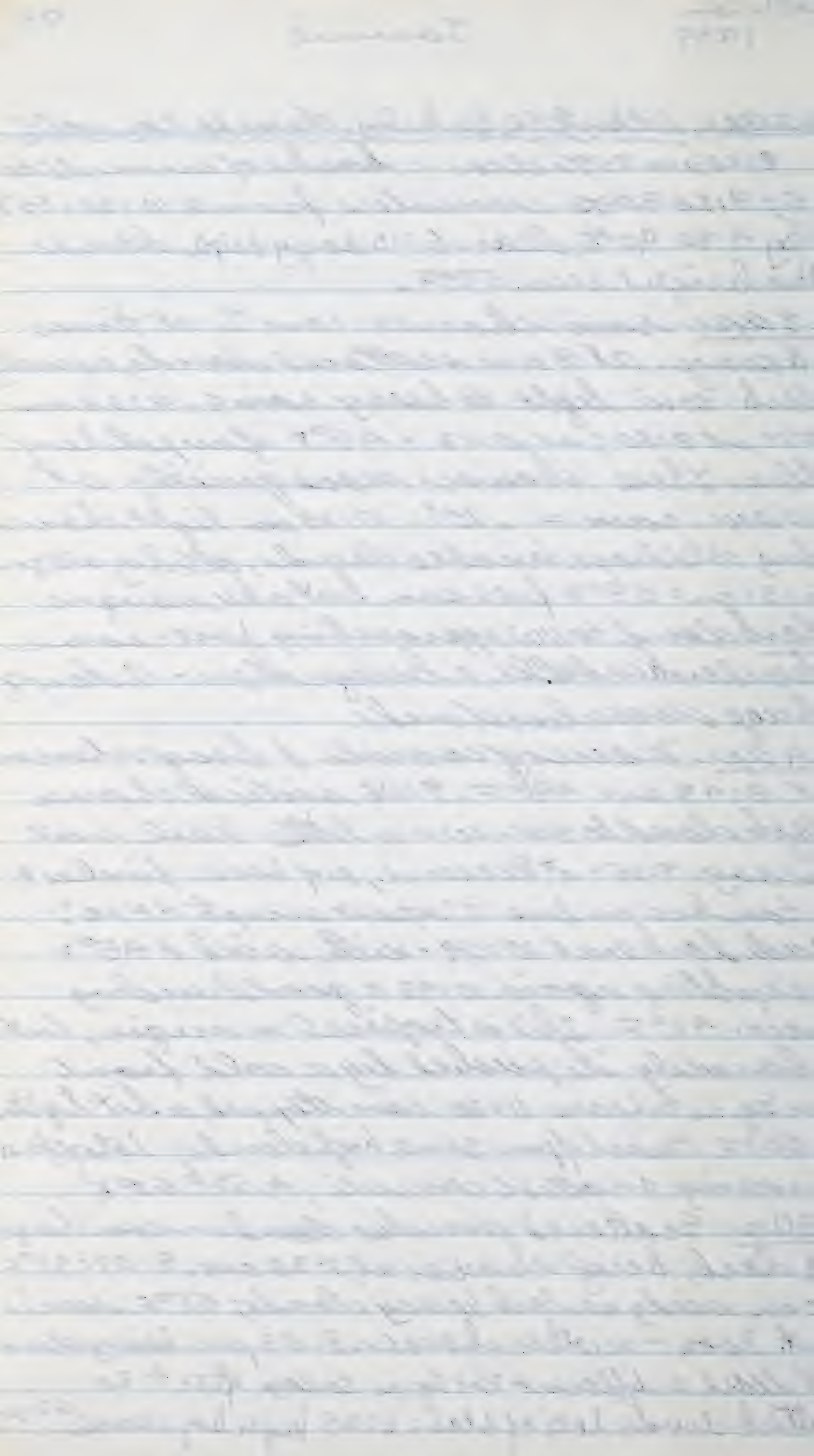
22 Apr., del Norte St., Berkeley, Alameda Co., Calif.

8:20 am 75% clear - banks of cumuli to 5; 9:30 80% cumulus from 5. 10:30 = 55°F
By 4:30 90% clear, 6:15 hazy high clouds
the brighter sun, 58°F.

23 Apr. rain showers 1 am \pm at times
heavy. at 8 am scattered clouds, especially
dark to W. light to heavy rain 9-9:30 am
51° at 8:30; at 10:13 = 45°F a few patches of
blue. These showers move quickly. at
10 am rain = .10". 10:29 am light shower,
big cold drops. variable clouds, all dry all pm
6:51 pm = 58°F full sun but a huge
dark cloud to NW approaching fast - some
thunderheads. a breeze all pm - a day of
huge cumulus clouds.

24 Apr. Masses of cumuli & brief showers
at 8:48 am = 48°F. 9:06 vertical shower
dark cloud to SW - W - a little hail. not
heavy. 9:35 - ♂ Passer d., 1st of house finches &
a towhee on line 2' apart except HF = 6".
Mud darker at 10:09 - with wind & 45°F
sprinkling again. 10:43 a good drenching
rain. 42°F This is tropical in origin, but
obviously it's pushed by a cold front.
Fox Sq. in this am 11:30 rain stopped, a bit lighter
& 50°F. Most of pm some high clouds; lots of fast
moving smallish cumuli; 4:53 = 62°F

25 Apr. Scattered cumulus clouds - some large
& dark, brief shower at 7:30 am. 8:09 = 48°F
10 am windy no dark heavy clouds; 55°F sun is
out. Noon - another shower. 3:08 pm heavy clouds
at least 2 different Fox Sq. in today after 4:30
scattered clouds, lots of blue; 6:25 high hazy clouds 62°F



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26 Apr

going to Monterey & Santa Cruz

27 Apr returned home at 1 pm from Santa Cruz 2 1/2 hrs. up coast to Half Moon Bay 280 - SF. etc. Notes: crows in downtown Monterey (& one on pole in west Berkeley. Along the coast N of Santa Cruz large areas recently plowed on either side of Hwy #1, the most between road & the ocean. Many flocks - 5 to 35+ of band-tail pigeons flying back & forth from inland to these fields.

Yetter extensive banks of cumulus clouds & thunderheads along all hills, especially higher ranges, with evident rain

Today small bunches of cumuli - rather small to modest over hills - bright clear day 1:30 pm 61°F = one Marauder B. going N. 7:05 pm 63°F clear slight breeze

28 Apr clear, at 10:50 am = 60°F faint breeze 2 Fox Sp. in; a ♂ in oak up hill was heading for house, jumped into Pittos. 2 pm caught Fox Sp. & released in Tilden = ♂ short, sleek & dark body hair; long thin tail in good condition & smaller overall size than most - 2nd yr. ♂? very aggressive.

2:13 pm clear 67°F upstairs in shade.

29 Apr. high overcast 9 am = 56°F all a.m. varied high clouds with bright haze seen to a list Lorber.

They say a remnant of a typhoon coming in.

11:40 am a rather mangy ♂, thin, poor tail, but long in looking for food no one likes the cracked corn.

30 Apr light rain 52°F, a respectable light.

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3 days, Rd Natl St, Berkeley, Alameda Co., Calif

until it slacked off about 10:30 am
when .10" had fallen. 2 pm sun thru
clouds; 3:40 clear, except for a few cirrus.

1 May clear 9:57 am 57°F in shade, warm
out in sun. Clear all day

2 May high cirrus from SW; at 10 am 61°F

3 pm 73°F general high overcast; dull sun
- this has been encroaching for 2 hrs. Very
little bird activity: 6:09 multiple layers of
clouds - all high to mid. - no cumulus. The
entire S-N horizon is covered with low
hazy clouds & sun. No birds

3 May - clear with some high cirrus. 9:30
a.m. 61°F The Fox Sq. ♂ took poor hair &
scratching sides & flank. Then 2 Fox Sq.
in to feed. Mostly clear. 7:30 pm sun
behind W. cloud = 77°F.

4 May clear, 8:26 am 60°F. 1:40 pm 69°F
in shade a bank of high cirrus from S -
moving fast, without much stringy adumbrated
fingers. 7:22 pm 64°F high clouds & encroaching clouds

5 May fog, clearing by 8:15 hazy clear by 9 am
= 58°F marked in patio all day - much
overcast; to low 70°s

6 May high clouds general haze, muted
sun; 68°F at 10:46 am. 11:38 am = 70°F
more mid-level clouds now. 1:37 pm
general overcast, few small patches of
blue. Fox Sq. in earlier & now one in oak,
and checked out the squirrel nest didn't
enter.

7 May fog - high, at 8:48 am 57°F. Scattered high
clouds & bits of fog coming inland at 1:25 pm.

[Faint, illegible handwriting in cursive script, likely bleed-through from the reverse side of the page.]

to find. 11/11/11. 11/11/11. 11/11/11.
11/11/11. 11/11/11. 11/11/11.

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[Faint, illegible handwriting in cursive script, likely bleed-through from the reverse side of the page.]

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7 May, del Norte St., Berkeley, Alameda Co., Calif.
= 64°F in shade, up & part. a quiet day
by 3 pm completely soaked in with fog
and 61°F. little bird activity except
house finches

8 May 8:33 am = 53°F thick fog tho
not especially low. Occasional
breezes. Little or no sun all day

9 May fog again breezes 9:46 = 54°F.
fog all day no clearing

10 May scattered small cumulus clouds
with brilliant blue sky. windy. 52°F
at 9:30 am. increasing clouds - by 2 pm
58°F & 90% ± cumulus cloud cover, some
rather dark, variable winds. 6:12 pm new
clouds from N to S! some showers about.
dry here. = 64°F.

11 May almost clear at 6 am heavier fog
at 8:22 am 51°F. warmer, clear pm

12 May hazy clear few high cirrus.
63°F at 10 am. 1:30 pm hazy clear, slight
breeze, 62°F

13 May small cumulus from NE 6-8 am; 8 = 48°F.
clear. 10:40 am = clear, 58°F. minor scattered
clouds all day - warm in sun.

14 May broken fog 9:40 = 55°F. 10:30 am
a starling in top of up st cedar - this is
the first bird noticed there in a week or
so! 10:44 one Fox sp. in oak, another = landing
70°F in sun, cool in shade 4 pm new hazy -
high & fog coming in. " "

15 May brief shower T at 5:30 am then
clear at 7:30 = 48°F. clear, windy & 60°F at
2:33 pm. 7 pm breezes, fog in & 55°F.

16 May fog to 8:30 am at 10:30 hazy clear = 57°F
2:08 pm Great Blue Heron family low NW to SE

17 May, del Norte St., Berkeley, Alameda Co CA
 Fog & variable winds. at 9:37 am
 51°F. 1:28 pm still fog, windy, 58°F.
 2:05 pm small thin & sleep & dark Fox Sq.
 in to feed on sunfl. seeds. 3:29 fog, more
 wind & cold = 54°F.

18 May clear, 8 am = 47°F no wind. clear
 all day - warmer - ~~more~~

19 May clear 8:14 am = 51°F no breeze.

20 May fog, 54°F at 9:36 am. a fox sq.
 came out of the nest in oak at this time.
 - at least had not seen it in tree before.
 10:17 am high chase 2 fox sq. thru oak &
 to cedar & up the trunk. pretty well clear
 by 11:30 am to Palo Alto

22 May 7 am clear; 90% for or low
 cumuli by 8 am 8:52 am = 52°F. Variable
 cumulus all day 10-90% 2 pm 59°F shade
 same wind from SW. ~~from~~

23 May 8:02 am = 49°F; a trace of rain in
 early am - yard & landing wet. Bright
 clear blue sky with few big fluffy cumuli
 & to some towering clouds.

24 May bits of fog to NE & some long wakened
 clouds from W. at 9:06 am = 53°F. By 11 am
 (62°F) almost complete cloud cover, very
 dull sun.

25 ^{May} Clear, calm 9:47 am 55°F. 2 pm 65°F shade
 clear, light breeze.

26 May noon caught the big ♂ - scruffy
 one - made lots of noise till I drove
 off to Tilden - Fox Sq., i.e.

clear 12:15 W shade = 62°F.

27 May clear except little chunks of fog early &
 many high clouds at 9 am = 58°F. 9:43 am
 Fox Sq. nest in oak; entered & turned

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27 May Alameda St., Berkeley, Alameda Co., CA
a number of times and vibrated, as
stamping a half dozen times. Then
departed — it looked dark & sleek
but couldn't see genitalia. at 8:15
the dark, sleek sp. was in Pittos near
to house chattering. Is it same
animal? Yesterday trapped ♂ (to
Tilden) — so 2 ♂♂ (new one) — any
♀; why ♂ at nest? 12:25 pm clear
except for a few small chunks of fog
from W. appearing out of nowhere.
2 pm — less fog, but cirrus & hazy to W.
Bright sun. 64°F. 3:33 pm clear W-NW
— was out for awhile high clouds & low
ones approaching from SE V

28 clear until noon when puffy
cumulus over head, 2:50 pm 65°F in
front — in shade, 4:37 pm — what looks
to be first oak moth flying about trees!

5 clear windy

29 May variable high clouds in a band
N to S. ~~52°F~~ 52°F at 8:19 am. at 11:09 am = 57°F.

6:30 pm bright sun, some mist all day.

30 May 8:27 am clear same fog to W = 52°F
a Fox sp. with a shorter tail & good
pelage — a new one?

31 May high thin fog at 7 am which has not
off by 7:45 am a bit hazier. 53°F at 8:21 am
77°F in shaded kitchen patio. very slight breeze.

1 June clear to Vallejo. Hot 4:24 = 99°F in
sun. 8:27 pm 82°F inside & outside

8:34 2 large ducks (mallards) 150' above trees
out of NW to SE 8:47 The first had of the year
Myotis size over top of elm 15' + — flew fast
& straight — E to W & N to S.

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- 3 June, del Norte St, Berkeley, Alameda Co, CA
fog in at night, fog to Pinala on way
to Vallejo - cleared up. Same hock
- left at 7:10 fog at El Cerrito heavy
in Berkeley. Same high clouds during
the day. 8:13 fog & a considerable amount
of fall out - 53°F . 8:38 the hat is back!
- 4 June a light rain started about 6:15
am; heavier about 7 & by 9 variable
cumulus masses with a few holes/sun.
only trace of rain but everything is wet
9 am brief shower, then more clouds from
the SW - thought I heard some distant
thunder. 9:57 am thunder in distance.
11:14 am = 58°F cloud cover. 1:04 pm
cloudy, 60°F one oap with out, 2:01 pm
 62°F still cloud cover the brighter. 4:25 pm
hazy dull sun some high stratus/cumuli
- 5 June variable clouds both high & lower
at 8:30 am. 58°F . clear after noon.
- 6 June fog at 9:19 am = 57°F little activity,
pm - high 70's to 7 patches of fog coming in = 65°F
by 7:30 solid the patchy fog.
- 7 June dense but not too fog some light
drizzle 10:30 52°F . 2:16 pm no sun yet!
= 57°F . 6:40 pm fog, a good wind, chances of
thunderstorms from E,
- 8 June fog; at 10 am = 57°F hazy sun and
10 - 11, the fog still S-N in my view.
partial clearing 2-3 pm, 4:24 in sun 75°F fog
hangs to W; chunks going N & E bright sun.
6:28 pm bright fog = 6, including the juv (cloud).
- 9 June thin early fog which pretty well dispersed
by 9 am; 9:16 am = 54°F slight breeze, clear &
 $80^{\circ}+$ breeze. Fog back
- 10 June fog all day

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11 June, ~~San Francisco, Berkeley, Alameda Co., CA~~
dense fog covered but not especially
low. 11:22 am 56°F. The sleek otter
sq. in to feed briefly at 8:30 & at
11:30 was about the nest in the oak.
1:37 pm 60°F, fog - first, only 1, oak matts.
4:28 pm 78°F in sun. (2:30 - 4:30 50% clear
& chunks of fog from W to E & N.) about 10
oak matts

12 June fog - fairly clear 11-12 = 60°F breezy
clear pm 70's, quiet day.

13 June 7 am fog, by 8 clearing, windy after
high clouds.

14 June clear, at 9 am = 61°F. Warm clear
day 4:40 pm in sun in front - 99°F!

15 June fog, 8 am 57°F short tail Fox sq. in
& 9:30 am fog starting to break up with soft
diffuse sun & shadows. 12:30 - 1:30 holes in
fog with N-S bands of high clouds. 2:43 pm
bright, fog 64°F in sun - the first oak matts
appear - 2. THE GREAT ELM CAPER

7:05 pm fog is low - tow. & between back
elm & up St. cedar. Made pause find last
minute feeding - 7:34 pm weights of fog
between back & W elm - at 4 called city clown
elm 10 pm they arrived worked to 12:30
16 June clear 59°F at 9:30 am. high haze
where elm was can see far to WNW.

Last night they trimmed the N part of W. elm &
today took it down to 25' because the trunk
split. They'll remove the rest in the winter - ?

There is much more open space over the
elm which was 70' + high. This will restrict
the movement of the Fat Sq.

17 June clear, will be hot. To Palo Alto & on to Santa
Cruz, back in PA by 8 ±; all clear, full moon!

Christman
1989

11 June

12:35 pm. a strange situation - noticed a bird on wire over the st. at first thought it was a juv. House finch but larger & paler the " " juv. short yellow bill, not quite a finch bill. Spots on wings like finch, a pale yellow throat-breast with very pale vague short spots. Then a small bird flew to it & fed it! The small bird flew into oak followed by the juv. 12:37 - the same juv. to wire 8' from oak & 20' from house - quivered wings. Then a Winglet flew to it & fed it same 1/2" winged insect & flew into Pittos. Again fed it & flew to line near to oak - a Winglet, small wing bars, eye ring - the first Winglet I've been since winter. Then the juv. flew to N ledge where House finches feeding & then down in the feed - & very tentatively sampling feed - seeds.

Christman
1989

Journal

103

18 June, del Norte St., Berkeley, Alameda Co., Calif.

Mockingbirds singing loudly in P.A.
hark hark by noon; clear, light
breeze, front - in shade = 70°F .

19 June clear, cool, breeze, fog to SW & W

8:23 am = 53°F between 10 am & 4 a bank of
high clouds moved in to overhead from W.

20 June clear with high haze - entire W

hazy at 5:40 F. 9:31 am = 62°F first oak
matt of day seen.

21 June Solstice clear main (9:23 am = 75°F)
& hint of breeze.

22 June 7 am 65°F clear; 9 am 76°F to 10:15 PM

23 June 7 am scattered fog; 9 = clear to W
& fog overhead & to E clear 1/3 in hills. 57°F

6:22 pm in front 73°F ; at 4 in shade in patio 70 +
now fog is forming over the flats & moving in.

24 June scattered thin fog, fairly clear, 9 am =
 60°F breezy. 12:15 pm heavy windy - west

wind? The valley is probably very hot
& this will pull in the fog late today
or ~~the~~ early tomorrow.

25 June fog, 8:47 am 58°F the faintest breeze
little activity - doves & few H.F. feeding.

Clouds by 3 except for a few chunks of fog -
 40°F + in sun. One oak matt.

26 June fog, 8:30 am = 55°F . yesterday a Fox
sq. with 1/3 tail in about 2 pm a ♂. at 10:45

the sleek dark one with full tail in - it is
suddenly shy & left after seeing me.

12:20 pm still fog, some breeze, rather bright

2 pm overcast above but clear in spots to
SW-W. = 64°F . 2:05 Great Blue Heron low N to S.

4 pm essentially clear, lighter breeze & 79°F in sun

Christman
1989

Journal

104

26 June, del Norte St, Berkeley, Alameda Co, CA
4:41 pm 81°F in sun small chunks of fog to
NE — one oak moth!

27 June patchy fog - 55°F. 11:30 am strong
breeze & now solid fog. Scattered fog to
6 - full cover. = 6:29 pm is 57°F

28 June heavier fog, at about 10 am 56°F
12:30 now clouds - not fog - dark then light
slight breeze 63°F a very slight drizzle
at one point.

29 June cloudy, opening up a bit by 11 am
68°F. Cloudy all day

30 June fog at 7 am then very light fine
rain for half hour, overcast, low at
8 am. 9:30 - breaking up to W. sections of
blue - some large cumuli buildup in main
C.

1 July clear at 9:25 am = 56°F slight breeze.
12:25 pm clear, calm 64°F front in shade.

2 July clear, at 8 53°F & at 9:48 am = 60°F light
breeze. Warm afternoon

3 July clear, some fog to S. 56°F at 8:30 am
filled the empty D-4 feeder to 3/4 full -
HF in immediately. They throw out millet
to pile under feeder.

4 July thin fog at 7 am, clear by 9 & 63°F at
11:10 am. Yesterday put out a ceramic
bird bath at S. end of the landing - put
smooth gravel to cover up the bright
blue glaze - also put out regular safe-
way bird seed.

5 July clear - 8:47 am = 59°F warm all day

6 July clear - 8:51 am = 61°F. 2:10 pm 80°F
in front in shade.

Christman
1987

Journal

105

- 8 July, del Norte St., Berkeley, Alameda Co., CA
1:17 pm (back from Palo Alto at 11 am)
clear except for some mid level
clouds. hazy - smoggy. This time
it's 72°F in front in shade. very
slight breeze. (9 July - clear warm)
- 10 July clear; 9:48 am = 59°F no breeze
- 11 July fog; 57°F at 9:42 am, 11 clearing
to W - fog in Hills N&E. 60°F breeze
- 12 July fog to noon; clear pm to at least 6
- 13 July fog - scattered clearing 8:50 am = 58°F.
- 18 July clear 65°F at 9:30 am yesterday
clear & warm.
- 20 July clear, 8:30 am = 58°F. few high
clouds in afternoon - in 80°F's quiet day
- 21 July 7 am few bits of fog to W & few
high clouds 55°F at 8:20 - clear with all day
- 22 July fog (57°F at 9 am) clearing - 75% at
9:35 am. by 11:30 am 90% fog gone = 59°F
4:30 fog returning, fog law at 7:47 pm 56°F.
- 23 July heavy, low fog - bottom of irises and
blooms NE. 55°F at 9:50 am. 2 pm almost
clear = 62°F. 4:40 pm fog in chunks in; 82°F
- 24 July fog - cleared by 10 am, back at 5:30 pm
- 25 July fog, 9:50 am 57°F, cleared about noon
- 26 July fog, 8:30 54°F, breeze. Clear except
for few chunks of fog going NE at 12:30
pm & 63°F cool, slight breeze
- 27 July fog to about 9 am then clear; 10:09 am 61°F
clear all day
- 28 July fog 55°F at 8:45 am 9:09 am 50% clear
- 29 July fog at 7:30 am clear by 9 with
patches of high cirrus going NE. high clouds
to 1 pm; 5 pm clear, 87°F in front, upstairs
- 30 July fog early clear all day
- 31 July fog to 7:30 am then clear 11:30 am 62°F

The first part of the paper is devoted to a discussion of the
 general principles of the theory of the structure of the
 crystal lattice. It is shown that the structure of the
 crystal lattice is determined by the arrangement of the
 atoms in space. The arrangement of the atoms is
 determined by the forces of attraction and repulsion
 between them. The forces of attraction are due to the
 electrostatic forces between the positive and negative
 ions. The forces of repulsion are due to the
 electrostatic forces between the like ions. The
 balance of these forces determines the structure of the
 crystal lattice.

Christman
1989

Journal

106

31 July, del Norte St., Berkeley, Alameda Co., CA
11:30 am fox sq. in oak, inspected the old
nest which is now just dead leaves. Then
started chattering. 6:12 pm clear 79°F ⁱⁿ sun

1 Aug clear, 9: am 57°F warm & clear

2 Aug " warm & clear 7 pm - 82°F in sun

7:40 pm fog ^{only} to W going N; blaring bright sun

3 Aug am fog off by 9, clear warm fog
arriving at 4:30 pm success by 6:30-

4 Aug fog in low 54°F at 7 ^{am}, a fine mist
all outside. 9 am a fox sq. in oak feeding
on something - ? developing acorns?

1:30 pm clearing since 11:30, now 80%
clear & 64°F. Anna caught a fox sq.

in trap - didn't hear him come down
the drain pipe. To the car he chattered
& ran about trap - released at
tilden. He ran up an oak tree. Fog
back in, solid, by 5:15 pm - 57°F

5 Aug fog 60°F at 10 am. The elms are
barely beginning to turn.

7 Aug fog - 8 am after high tops of rain

9 fog off & $\frac{1}{3}$ - $\frac{1}{2}$ cumulus cloud cover

58°F at 9:25 am. 7:48 pm several layers
of cumuli to W & especially NW. a different
quality of air today.

8 Aug fog & high cumulus at 7:30 am, then
solid fog. Last night 1 am \pm lightning
& thunder way off to NW; not alert.

and a good 15 sec long rolling earth-
quake about 2 am it built up to some
rolling jolts then tapered off. House
rattled - windows shook first

scattered clouds & fog to 2:30 with thunderhead
to SE; almost clear - 3-4 strange day

4:03 Fox sq in ∇ a new one? full tail

Christman
1989

Journal

107

8 Aug, ~~del Norte St.~~ Berkeley, Alameda Co. CA
6:50 pm completely fogged in. = 65°F

9 Aug fog, 9:30 am 59°F clear by 10:30
am, 11:30 = 60°F. 1:45 pm a new (?)

Fox Sq. in today - appeared yesterday
actually. Bastard chattered at me!

10 Aug fog & 54°F at 8. 9:15 am the
fox sq. is persistent in new pelage
& well haired tail, but not as large
as same. It's a bit lank than the
one taken to Tilden other day. It
scratched behind ear with its hind
leg - over its shoulder with fore
foot on ledge!

14 Aug 8:13 am clear, 57°F came back
from Ontario yesterday.

16 Aug fog to 8 am - clear 10:45 am = 62°F.
noon cool w breezes = 61°F. 2:20 pm
= 61°F chunks of fog from Golden Gate & is
pilling up over hills. For the first time
this yr. the breezes are causing leaves
to fall from elms & sycamores - they
blow across the streets. Feels like early
winter. Fog back by 6 pm 8 pm solid, breeze
at 55°F. quiet day.

17 Aug fog, 65°F at 11:35 am. clear by noon
a windy afternoon - 2:35 65°F in shade.

4:14 pm in broken sun 68°F from W. good wind
& chunks of fog.

18 Aug fog 12:08 pm 64°F no sun. Yesterday

Fox Sq. in NW elm; now in oak at site of the
nest was eating something - acorn?

12:17 Fox Sq. on ledge!

20 Aug fog 11:13 am 60°F fairly clear at 1 pm, 3:30
pm - spotty fog returning.

22 Aug fog & drizzle 56°F at 8:26 am

Christman
1989

Journal

108

22 Aug., Del Norte St., Berkeley, Alameda Co., Calif
5:30 - 6:30 am very quiet no calls of
any kind. Fog all day - rain in N. Cal
coming. 60°F at 7:30 pm near sunset

23 Aug 7 am very light rain or very heavy
drizzle - everything wet. Stopped by 8 am
8:30 = 57°F. Broken sun, 1/3 clear at 10:45
am. 12:36 pm clear = 63°F

24 Aug clear 59°F at 8:40 am, clear all day
76°F at 6 p. 3 pm ± 7. many such butterflies
to SE

25 Aug. Clear 54°F at 8:15 am. 2:20 pm = 64°F
first stringers of fog off to W behind pole
at circle. Fog came by 6 pm

26 Aug fog, 8:53 am 57°F. 10:50 am dull sun,
open holes in the fog. Yesterday bought a
big bag of large white sunflower
seeds and a bag of pigeon food
which contained dried peas & pop-
corn seeds. The latter was not taken
by doves late yesterday or before
8 am today. Will anyone take them?
Pretty clear by 12:30 pm the small chunks
are still moving to the NE. Windy and
at 1 pm 62°F. 3:45 pm small chunks of fog
coming in = 80°F in sun! breezy and
leaves falling. 7:50 pm 1/3 clear, fog = 58°F.
4:10 = 86°F in sun fog is returning

28 Aug fog, 8:09 am 54°F clearing by 10:45
am = 60°F clear to 5 p fog in 7 solid = 57°F

29 Aug fog, fine drizzle 53°F at 8:33 am.
afternoon clear & a brisk breeze - stringers
of fog to SW to NW 77°F in sun.

30 Aug 8:45 am clear, no wind, 54°F heavy dew
last night. Clear all day

31 Aug 8:20 am clear 54°F fog over the hay

- 31 Aug, del Norte St, Berkeley, Alameda Co., CA
 Not so warm today, fog back in at 6:30 62°
- 1 Sept fog, 8:17 am = 57°F. clearing at 8:45
 and clear by 9:30 but still cool —
 58°F at 10:12 a.m. 11:04 60°F, but a very
 cool breeze — feels like November
- 2 Sept 7-9 am clear to bits of scattered fog
 dew heavy this am. at 11 am landing
 is still wet at 60°F.
- 3 Sept fog early clear by 9:30 am. 61°F at 11:15 am
- 4 Sept fog, first break in it at 10 am at 57°F
- 5 Sept fog, 9 am 53°F no dew or wetness
 9:45 am beginning to clear. Fog in during night
- 6 Sept fog, 9:35 am 53°F. Fog & cool all day
- 7 Sept partial clearing by 8:30 am 55°F.
 64°F 2 pm a monarch flying by. to S & to N.
 7:25 pm clear; 59°F hazy. Low pressure to NW.
- 8 Sept fog 56°F fog broke up at 1, but still
 bits of fog sailing N & E, at 2:30 ^{pm} 64°F
 feels cool. Fog in patches by 5
- 9 Sept 9:30 am fog & 55°F. Cooper hawk
 saw thru neighborhood 9:54-10:04 it was
 10:40 ± am before things back to normal
 with stellar jays calling & towhees & finches
 out. clearing by noon, then scattered
 chunks of fog to N., some breeze 61°F.
 2 pm one monarch to S. not high. 3:39 pm
 absolutely clear, 80°F in sun. 7:31 pm 59° clear
 quiet
- 10 Sept Sunday to CAS / 12:49 fog; = 58°F
 partially clear to 7+. only 63°F in sun at 6:27
- 11 Sept at 9:03 am 54°F fog, dry at 8 am
 quiet day. 2:38 pm still fog = 62°F. Fog all
 afternoon 7:30 pm 54°F breezy
- 12 Sept 8:11 am fog 53°F. 10:15 am some sun.
 11:21 am monarch to NW below tree tops. 1:18 one
 monarch to SE over house. 3:23 pm clear 69°F in sun

Christman
1989

Journal

110.

12 Sept., del Norte St., Berkeley, Alameda Co., CA
3:37 pm clear - another monarch to S.

13 Sept 7 am thick ground fog; 7:30 am
clear over head, but 1 block w fog overhead
8:31 variable overhead = 52°F . 9:50 am
 58°F clear. = go far this am. 2 robins
fly N below elm tops, one flies S, same.
2. mocking birds high one lands
briefly in top of up st cedar, other
in top of dead pine branch 150 yds
NNW. and 2. steller's flying S over
tops of elms. 12:35 pm one monarch to
N. On Salano ave. another 20' up to S.
1:06 pm 1 monarch on mentioned
wing high over oak gliding southward.
6:12 pm clear = 64°F quiet. clear at dusk
14 Sept hazy clear at 7; 7:30 am fog
low 4 blocks w. by 8 + the fog is low &
thick 8:53 am 54°F . 11:30 slowly clearing,
 59°F $\frac{1}{4}$ sky to SW to NW is fog. sun out.
11:59 am 1 monarch over oak to S. = 60°F
12:14 pm 1 " " elms.

1:51 pm 1 " " oak & house to SE
back again 7:08 pm fog in huge swirls
is returning = 56°F .

15 Sept 8:20 am fog, 54°F fog breaking up
slowly at 11:30 am. 12:50 clear 12:54 pm
monarch over house from NW. 3:50
another monarch S. 4:15 pm on Salano ave -
a few small clouds to W., but 2 towering
thunderheads - S and SE (behind hills.)
6:33 pm bands of high clouds to W-NW (20%)

16 Sept 2 am \pm first lightning - thunder in
distance, 4 am to NW & more & closer 5:10
first light rain, one brief shower - stopped
by 8 scattered clouds - all levels from S.

Christman
1989

Journal

111

16 Sept., del Norte St., Berkeley, Alameda Co., CA
9:43 am sky a monotonous gray to
S then a general rain; lasted minutes.
again at 1:10 pm (so far .18") = another
shower. 3:40 pm a continuous light
rain - a gentle soaking of the dry yard
(except for my superficial watering), 4:32
a sazy towhee chipping on ledge looking
for food. The sky is lighting up a bit to
SW but still a continuous vertical rain.
Now everything is wet! No blue just
lighter shades of gray. at 5 pm = .68" rain.
7:07 pm. still raining!

17 Sept 90% clouds of different levels & color
8:33 am 55°F 9:56 am cloudy and breezy
with cascades of yellow elm leaves
falling - then light rain from S.
10:23 clearing - bright, 1/3 blue sky. 10:49 am
light gray monotonous sky, a breeze
Total rain so far for this storm (10:40 am) = .81"
now a very light drizzle. 11:29 am slightly
heavier rain - rain tapered off about 12 noon.
3:15 a five minute heavy shower. = 59°F
6:25 sun & scattered clouds, 10% blue, = 58°F

18 Sept shower about 5 am rain at 8 am =
.28" (since yesterday) scattered clouds, 52°F
10:49 am 75% clear, puffy cumuli from NW
monarch over house & alighted on oak
near top in sun. 57°F. 10:52 am another
monarch to W. 10:59 am there have been
2 Fat Gg. in separately about same
size, but one has full tail & other scraggly
1:30 - 2:05 pm small thunder heads NW-E; ±
clear overhead & far to W where there is a long
band of high clouds, in a few minutes high overcast
from NW-N over cumuli & its getting darker.

Christman
1989

Journal

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- 18 Sept, ~~del Norte St, Berkeley, Alameda Co, CA~~
2:08 pm thunder to NW. The clouds has pretty well travelled on to the NE without further thunder nor rain (until a few drops at 3:01 pm). 3:02 solid gray to SW a small hole of blue & a thunderhead to WNW. Breeze died down - can't tell direction of wind.
4:12 partial sun again high clouds over head & banks of cumuli to W, slight breeze. a day of the briefest showers & a collection of clouds 85% clear to 7:20 pm = 55°F going to be cold!
19 Sept 7 am 47°F relatively clear, by 8:15 am low cumuli to high in hills. 10:10 am 50°F clouds, 50% blue 56°F one monarch over house & lawn - in the sun. 11 am almost clear - a very soft quality today. 57°F.
11:50 about 4 more monarchs, most to S.
2:53 pm 61°F several more monarchs to S. More to day than hitherto. 4:12 pm clear & still, looks like a fog bank beyond the S. Gate.
4:48 pm whiffs of fog out of thin air to W to NE
20 Sept 8:31 am fog, 55°F. no dew 10:03 am sun out. Fog beginning to break. same high clouds WNW, then 11:30 bigger bank of high clouds to N which moved N. Several monarchs to S - fairly high tree top.
21 Sept out late - Brian stayed over - at 12:25 60°F in shade up stairs has been clear since before dawn. Everything wet from dew early - before 8:30 am 3 monarchs to S in a.m.
22 Sept clear some dew 61°F at 9:30 am
9-12 pm 9 monarchs to S. 1:30 pm caught the Fox sp. with poor tail. 3 pm 2 more monarchs, one was very high to SE
23 Sept low fog, no dew or wet, 54°F 9 am

Christman
1989

Journal

113

23 Sept, del Norte St., Berkeley, Alameda Co., Cal.
10:50 am a monarch alighted on
a branch of NW elm $\frac{1}{2}$ way up on
S side - still fog and 60°F. Saw a
yellowish warbler (?) into oak
- immediately disappeared. 2:04 pm fog 58°
3:42 pm still fog, so far 3 monarchs today.

24 Sept fog, 9:42 am = 60°F 1-6 + pure high
cirrus clouds from SW. Cleared at noon

25 Sept partly cloudy (fog) at 7:30. at 8:45 = 58°
du am. at least ten monarchs went
by mast lower than tree tops. Two at
one time - first time for 2! a quiet day.

26 Sept 8:06 am 58°F rows of monarchs
sky - cumulus from W. 90% + cloud cover
first monarch at 9:33 am to W. This is the
time of year that jays fly high and
are very obvious, with considerable
noise. Monarchs are capable of long
glides up to 30 yds at least. 10:32 am
1 monarch to N between trees. 11 am
open sky same fog next to hills. small
cumuli to N; 63°F. 2 more monarchs
to S. One approached W elm 50' up then
had to climb over it. Slight breeze & a
cascade of yellow leaves falling. Between
2-3:30 great slashing bands of gray
mid-level clouds from SW (64°F) dull
sun.

27 Sept cloudy with same fog, 8:32 am 58°F
thin 98% cloud cover. after noon cleared
& warm on Solano also 7:30 = 59° 70°F today

28 Sept fog, 57°F at 8:40 am 10:42 am fog
first broke open about 10:30 now first
monarch over house & to W. 11:45 am cirrus
just coming in & a haze to W. = 62°F

Christman
1989

Journal

114

28 Sept., ~~at Hatter St., Berkeley, Alameda Co., Calif~~
noon - getting hazy, no shadows, some
open areas to W but looks like indistinct
fog 63°F. 2:44 high clouds 90% 63°F. feels
like winter. few small chunks of indistinct
fog. 6:30 pm a light rain!

29 Sept. Mix. clouds at 6:30 am. 90% clear as
8 with banks of clouds in Marin Co. & NE to
SE over hills here. Everything is unexpected
- 70" rain last night 8:12 = 54°F. 9:45 am
have been scattered formless cumuli
to N. far an hour +. Now 58°F damp outside
11:05 = 60°F pretty clear with only few bits
of fluffy low clouds. Seeing cumuli N. in Marin
1 pm a huge brilliantly blue sky with a
large thunderhead building behind the
utility pole WNW in N Marin - Sonoma Co.
Things washed & wetted the last night's
showers, 1:46 pm now cumuli have form
shape, dark & light; to SE, W & NW. Sporadic
2:08 = 64°F. 6:54 = 61°F shade; high fluffy clouds
30 Sept cloud cover at 8 57°F. 9 am - broken
sky with anamorphous soft, thin cumuli.
On warm afternoon cumuli have
sharp edges & a real form - due to
warm rising air. Now cool the banks
of cumulus clouds soft formless.
monarch 10:54 am first of day. about half
dayen/day.

1 Oct fog cover at 7:30 am. 75% open by 9 & at
9:45 = 59°F perhaps it will warm up. in sun
10:07 am first monarch to SE 4:16 clear 80°F
4:48 to W chunks of fog to N. 7:08 pm sun down
pale yellow sky to W with fog racing in heavily & fast
57°F busy day working - reading.

2 Oct Fog, breeze 8:15 am = 55°F

Christman
1989

Journal

115

2 Oct, del Norte St., Berkeley, Alameda Co., Calif
9:40 am breaking up - some fluffy
cumulus clouds. 10:40 am low fog over
hay and overhead from SE! and cumulus
from NW - very confusing 11:30 - 1 increasing
cumulus clouds from SW, slight breeze 1:18
pm = 64°F. 3:44 pm cumulus from NW. 85% cover
6:58 pm partly overcast = 59°F Snow in Sierra

3 Oct clear cool dew; 8 am 48°F 9:39 am
Fog on ends of branches in oak - after
acorns? 12:59 pm clear 63°F. 2:38 pm 63°F in
shade. An hour ago one small cumulus building
over hills to NE in 50 min. it was towering
up - into a full thunderhead. Same to W Nubeve,
Main Co. - 1/2 doz. monarchs today. 3:30 pm
in sun = 77°F.

4 Oct. clear with a thin mist among hills
8:16 am = 46°F dew again this am. No clouds.
9:59 = 55°F first monarch (temp. in shade)
10:59 am 2 monarchs to E 15" apart, one
about 10:15. = so far 4. 11 = hazy high clouds to
W. 12:46 pm band of hazy cirrus N-S to the W.

5 Oct clear 8:30 50°F; first monarch at
8:37 to NW. 3:57 pm 92°F in sun!

6 Oct clear 7:58 am = 51°F. 9:23 am monarch
landed in oak - E side in sun, 20' up - the
first this a.m. 11:53 am = 63°F shade. 12:13 pm
a monarch soaring well over tops of elms -
close to the height of clouds.

7 Oct. Fog, clear by 9 hazy about edges, 10:36
am = 56°F, quiet. Noon hazy at 61°F high
filmy clouds to SE-S.

8 Oct clear 59°F at 9:16 am 9:25 60°F & first monarch
over house to NW. Crickets have been chirping in the fog

9 Oct. Clear, no dew, 8:42 am = 60°F. 9:51 first monarch
to over house. 4 or 5 monarchs by 11 am

Christman
1989

Journal

116

9 Oct. del Norte St., Berkeley, Alameda Co., Calif.
3:18 pm 86°F up stairs, 80° down stairs.
a hot day. 6:41 well after sundown = 64°F

10 Oct. low fog 54°F. 10:20 am dull sun,
vague shadows, a little blue, 58°F, clear by
11; 12:50 pm = 62°F. 1:18 pm monarchs and today
most over house SE, or flew opposite
direction; two flying 18" apart, several
to SW. and one flying 5 high (others
below height of elms).

11 Oct fog-high, 8:32 am = 53°F 10:18 am
hazy sun - still fog from my view. 10:21
first monarch over house from E landed
on oak to sun itself = 58°F

12 Oct high fog 9:25 am 54°F = Fox Sq. in Oak
only one dove about - in NW elm, 2 or 3
house finches in top of NW elm with
a robin. 11:34 am sun out but still fog
W-N. 11:53 am 57°F first monarch - high to
E. 12:30 pm most of fog gone, but a rather
hazy sky with many cirrus S to N. at
1:15 pm 59°F.

13 Oct. 7:30-9 am scattered & patchy fog. 9-53°F
essentially clear by 10 am. a low pressure
center - a new weak one is going thru - so
it may clear out the "marine intrusion".
2 streamers of high cirrus to SW at 10:05 = 54°F
11 am a few long disjoint cirrus still streaming
to N fairly rapidly. high hazy cirrus to S & E
at 12:30 pm. 62° in back, 59° in front cool day
12:57 pm first monarch to W over house. 4 + high
clouds thicker to S & E heavy low far over bay.

14 Oct fog, 9:12 am 53°F ledge & landing wet
dry down stairs. dull sun overhead at 10:35 am
then back to overcast. at 10 one Fox Sq. in oak &
another came down to landing. 11:31 = 59°F fog

14 Oct. del Norte St., Berkeley, Alameda Co., Calif.
 In a minor way this is the first day
 of winter: fog overcast & sac. within
 in 45 minutes: a R-c. binglet, a ♂ town-
 send warbler & a flock of wax wings
 flew over & a golden-crowned
 warbler. 1:23 pm first monarch of day
 - 57°F!

15 Oct patchy fog = intermittent sun & blue
 9:54 am = 55°F. towhees, doves feeding
 - suddenly all took off & a dark bird -
 fairly large flashed S to N past 6' over
 deck - could it be what it was - now
 no birds about, quiet. 10:05 towhee
 feeding & salin top up cedar. 10:31 = 55°F =
 first monarch W to E below house level
 1 pm = 59°F in front, fog mainly gone; some
 cirrus over head over Wagg to SW.

16 Oct patchy fog 49°F, 5-10% blue. 9:45 am
 = 52°F almost clear; hazy edges.

17 Oct clear, 8:40 am = 53°F. 10:14 first monarch
 NW to E at 59°F! About noon a N-NE
 wind came up, now 70°F! Irish breeze.

5:04 The Earthquake: the hardest

I have ever felt! Listened to new to Jan.

18 Oct clear to high 70's in pm 7:13 pm = 72°
 Many crickets calling.

19 Oct 8:59 am 63°F high cirrus from S first
 monarch. 11:14 am 70°F more monarchs
 bands of cirrus & diffuse light & shadows.
 3:16 80°F more cirrus & sharp shadows. 6:55 pm
 bands of clouds to W = 63°F.

20 Oct overcast, no dew etc. 8:51 am = 54°F.

9:15 am 2 Fox Sq. near top of bare upst elm
 made running about & appears to be feeding
 on buds or branches - 70' up to.

Christman
1989

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20 Oct., del Norte St. Berkeley, Alameda Co., Calif.
only one monarch at 1:44 pm = 66°F still
overcast. 3 pm = 64°F SW wind with cumuli
moving past. 3:25 pm very windy.

21 Oct. Trace of rain by 7:30 am. general
heavy sprinkle at 8:30. When I went out
at 7:55 steps dry under oaks. Now light
breeze. 9:50 am light rain; everything wet
Foxg. crawling over ends of branches.
10:15 darker & now general rain. Wrens & doves
& towhees & 3 robins - now no birds
active. 10:30 less rain; brighter sky & light
breeze. Rain in am. = .20"

22 Oct scattered clouds of many layers; 9:18 am
= 58°F. clouds from S, no breeze. A little rain
last night. 11:45 am has been sunny with
variable clouds. Now increased wind &
more lower cumulus moving in.
Same monarchs out in the sun. cumulus
clouds all afternoon. Rain for day = .05"

23 Oct a light rain by 3 am and very
heavy at 7:30 and let up to a good
drenching rain by 8:30. 9 am = 54°F. No
bird activity. rain over verbs at octanais
at 7:45 am. 9:16 light rain: on line 10 house
finch, 3 doves (one juv) & one Br. towhee.
Doves in to roof. 9:24 light rain also robins
(2) & scrub jays on tree tops (NW elm very top).
Rain fall yesterday to 10 am = 1.48" !

10:45 new light rain sky lighter now. few
small spots of blue off to W. Obviously a
nonew front went thru. More out there
11:09 light rain - now uniform overcast. 12:23 pm
rain stopped few spots of blue (- 59°F) 1 pm more holes
in clouds, no breeze = 59°F 3 pm scattered cumuli
7:11 pm almost clear! = 56°F Plus .09" in rain gauge

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1989

Journal

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23 Oct., del Norte St., Berkeley, Alameda Co., Calif.
7:12 pm crickets chirping every evening up late.

24 Oct. huge dark clouds at 8 am 8:30 - 9 were
several tentential lacoon puffs. 9:05 am
huge cumuli same blue = 51°F . Rain 6 pm
last night to 9 am (d thick dark, high h.) = .36"
10:05 heavy shower. 10:35 sun out & 50°F
blue sky. 11:22 low cumuli moving N fast
to W some huge towering cumulus building
up fast. 12:30 still small cumulus over head &
towering C. to W and esp. to NW. Today seems
to inaugurate winter: warblers, robins, flickers
etc. 3:27 pm over 50°F clear with huge towering
cumuli around entire horizon & few high cirrus

25 Oct. clear; 8:10 am = 44°F dew on car.

9:30 am. Fox Sq. at old nest in oak & foraging
for acorns. Very little bird activity until
after 9 am - (at 9:30 48°F) when sun
was out full - robins, doves and House
finches in sep & clus in sun! 9:34 Fox Sq.
in mid section of NW clus - so 2 V 11:46
am. 53°F upstairs, down stairs in back, outside =
 57°F . It feels cold. Noon - 2 pm first new
growing cells of cumulus - seem to develop
first small then coalescing. Towering C. to
SE over hills 3:17 pm in shadow of a large
cumulus overhead & to W & E a few clear areas
 59°F .

26 Oct + clear except fog-clands to W & S
at 7:30 am; by 8:10 clouds moving in &
now overhead = 56°F . 8:33 both several
scrub J. & Robins tops of trees. Nothing has
come into feed yet! 9:11 house finches, doves
hens leg J & towhees into feed. 10:54 variable cloud
overhead; building up over hills to E. Banks of clouds
SW to North cirrus & a number of towering cumuli

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1989

Journal

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26 Oct., ~~del Norte St., Berkeley, Alameda Co. Calif~~
= 54°F upstairs, sun and no wind. 1:44 pm was
high cirrus over most of sky with cumulus;
now almost clear except for huge build
ups of cumulus W to NW. = 60°F. 3:30 clear
except band of cumulus SW to N not well formed
in sun = 72°F. 4:10 now band is closer - light
clouds under it to horizon.

27 Oct about 5 am light rain = .07"; overcast
at 8; opening to W & overhead at 8:45 am = 51°F
9:45 am 50% blue, sun out, ill formed cumulus
= 54°F. 9:51 towering cumuli WNW - no breeze
but clouds from NW. 10:21 am 90% rather dark
cumulus. 11:08 am = 56°F Now cumulus
clouds have a more definite form -
I think this is due to convection and with
things heating up & with elevation they
tend to billow up & thus have form &
shape

28 Oct. 9:20 am 49°F clear, no breeze (but
wind during the night) no bird activity
~~the~~ ² doves in W. elm. 9:30 1 towhee in, same didco
heard stiller S to N. 10:52 am 54°F 2:30 Fox Sq
in coop = 63°F. more of a breeze

29 Oct 10:23 old time, 53°F; clear, breeze
NE wind. 3:45 pm light breeze now; in sun
= 81°F haze & high clouds to SW & W.
Switching to standard time

30 Oct clear, wind during night; 8:05 am
bands of high cirrus S - W with high wispy
cirrus from SE overhead = 55°F. 11:45 am
heavier clouds in from SW. 3:48 pm monarch -
first I've seen in days! = 84°F in sun

31 Oct 8:41 am clear, 50°F in upstairs shade, high
clouds to S & W. First monarch seen! 1 pm several
more monarchs: ~~to~~ 65°F ^{many monarchs} going N as S?

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1989

Journal

(2)

- 1 Nov., del Norte St., Berkeley, Alameda Co., Cal.
8:15 am clear 53°F. several monarchs in air
1 pm = 66°F up st. monarch to N.
- 2 Nov 8:25 am = 50°F clear quiet. 8:51 am
= 53°F first monarch, to NE. 9:50 am N. Wren
= jay (much) N near nestling branch. Thence
+ Lark & a towhee. - it is 3 ft from the top
- it is highest 4' from fork 15' from jay
towhee flew down
- 3 Nov clear 8:15 am 51°F. 9:23 am 56°F same
thin stringy bands of cirrus N-S off to W & N.
2:20 pm 72° shade; monarch to S.
- 4 Nov 9:15 = 53°F clear. at 8 am 2 Fox Sq
chasing around an elm trunk 7-10'
from ground. To Palo Alto
- 5 Nov Palo Alto fog until 9 am. Name at 1:30
mainly clear - 2:50 in sun 78°F but feels
cool, some disjunct cirrus SW to N.
4:19 almost solid strato nimbus to NW -
heavier cirrus SW. 6:30 dark = 52°F
- 6 Nov thin fog to 8:30 clearing overhead
more to SW & in hills = 49°F 10 clear, 52°F
after hazy cirrus to NW. lots of dew before 8 am
10:48 more cirrus N-S & bands of hazy clouds to W
3 pm entire sky high thin clouds to W (S to N)
in sun 70°F
- 7 Nov clear with a band of cirrus N-NE at 8:32
= 50°F clear all day
- 8 Nov 8:33 am = 49°F clear heavy dew. 9:58 am
first monarch to S. = 54°F.
- 9 Nov clear; breeze off & on in pm 68°F in shade
at 1:26 one monarch to S.
- 10 Nov clear, no dew, 8:07 am = 51°F
- 11 Nov clear, no dew 9 am = 56°F, a hazy band
of ~~cirrus~~ cirrus off to W - entire horizon. 11:35 am
first monarch overhead to E. filmy cirrus now approaching.

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11 Nov., ~~del Norte St.~~ Berkeley, Alameda Co., Calif

12:06 pm 68°F. 2 pm widely scattered
cirrus, solid to W. 72°F & no shadows.

3:21 same 72°F. 3:35 broken sun; one
manarch to N. 4:12 pm Fox Sq. a cold
nest in aab first die seen in aab today
hug in to landing at 8:30 I am

12 Nov low fog 51°F at 9:22 am. no dew
variable clouds (high cirrus) & fog all day

13 Nov Fog 8:50 am = 53°F light drizzle with
wet streets, etc. 9:13 am heavier drizzle
will be a "trace" of rain. Much more
"activity" by tree-hives & finches in the
drizzle today as compared to other
days at this time. However only one
jay in & no robins or foragers in aab!
2-4 pm gradual clearing to mostly clear
4 pm = 60°F in aab.

14 Nov. fog, broken fog & sun by 8:15 = 49°F.
Clear all after noon very mild

15 Nov. variable clouds 9:15 = 60°F a storm
front somewhere! 11:30 am bands of thick
cirrus, no shadows = 63°F often gusts of wind.
more open at 4 -

16 Nov 8:55 am = 49°F clear. 9:39 am = 54°F
first manarch - to NW over house.

clear - 64°F at 1:20 pm little bird activity today
2:30 bands of cirrus N-S to the W. = 80°F in sun.

17 Nov 57°F at 9:40 am clear, cirrus far to W.

By noon a rather hazy sky of thin cirrus
in bands to W. The Photinias in house
& back are bright red. two fox Sq. running to up
in NW elm to W. 12:28 pm first manarch to S; =
66°F upstairs, part shade as always.

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Journal

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18 Nov., ~~del Norte St., Berkeley, Alameda Co., CA~~
clear tho hazy, wind blew last night
quiet at 9:45 = 60°F The sharp-
* skinned hawk incident by 10:30
no birds incident, house finch flew
this am. no doves to feed, one big
tawhee early, 10:40 first a scrub J
then a flicker on top of utility pole
at the aisle

a strange day — wind last night and
still gusts 65°F at noon and practically
no bird activity — a tawhee several
times, no jay in close, came close in Pittos
but can't see — so a hawk in earlier
but is lack of all means birds so to the
wind? One B tawhee sunning on line
12' from house, another in Pittos, one scrub J
top of up st cedar only briefly. One house
finch in Pittos making simple "chew-ips"
— and except for the one in top of NW
elm during S-S hawk presence — none
in NW elm.

19 Nov clear, at 8:25 am: 51°F. Last afternoon
* as I was watching a merlin at his dinner
I saw in the far distance behind the hawks
a good sized flock of birds flying north.
They might have been good sized shorebirds
— such as willets. This am, no wind. 10 am
am impressed by how little bird activity
there has been! weather, two hawks yester-
day — what?

20 Nov clear, 9:45 am: 56° Doves came in
& tawhees & house finches once — the
D-12 feeder is used much less frequently
esp. the finches & chickadees. So why
less feeding? so I fixed up feeder

20 Nov., del Norte St., Berkeley, Alameda Co. CA
with more sunfl. seeds both small
black & large white. Will this increase
use of the Wall-Yambee Feeder?

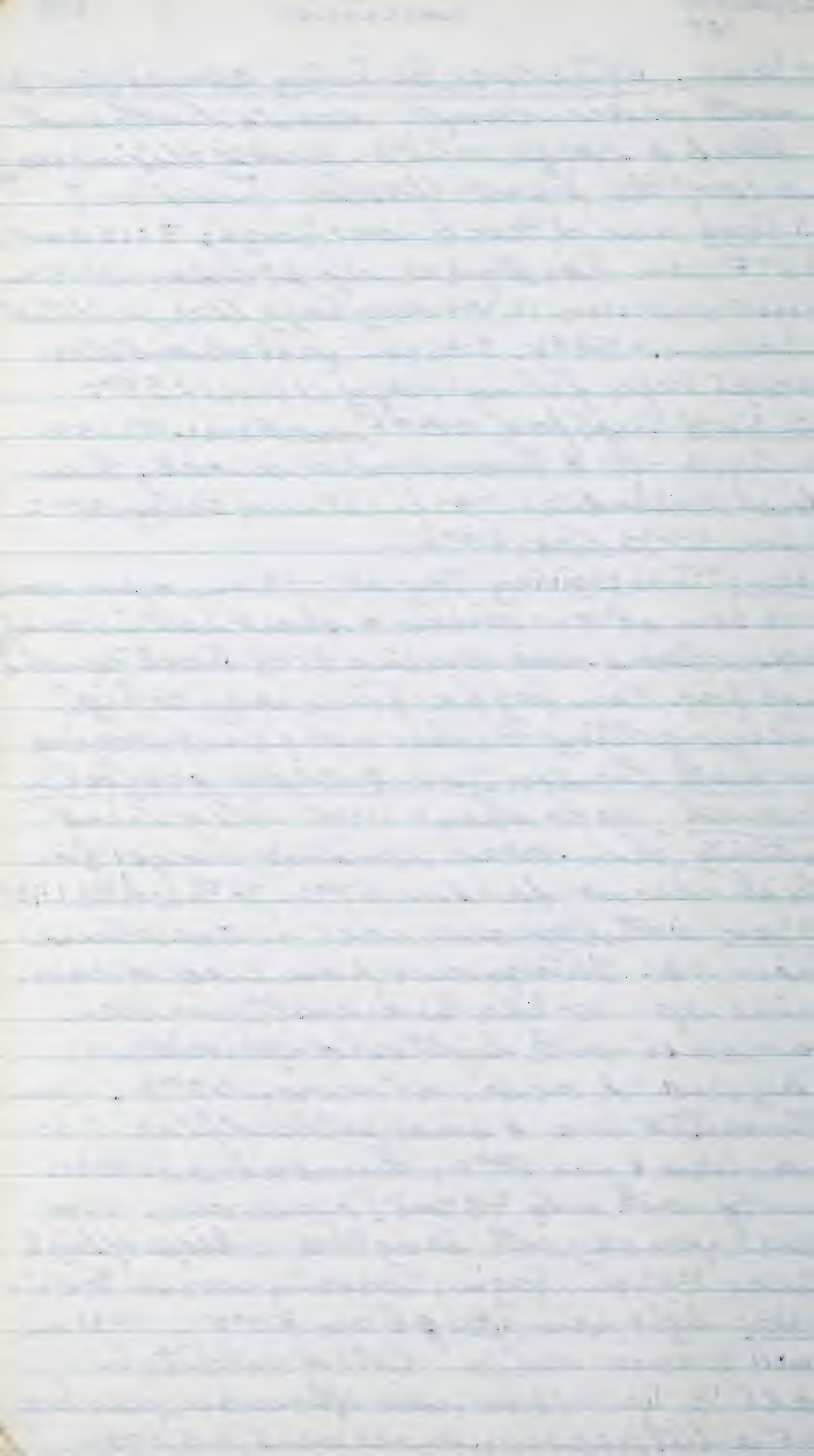
21 Nov one of those low fogs! 8:15 am
46°F can hardly see up St. Cedar. 11:15 am
first dull sun. 12:44 very hazy blue, indistinct
shadows. = 54°F. 3:46 pm just about clear
except high filmy-hazy cirrus = 55°F

22 Nov high fog, 48°F, no dew. 9:25 +
2 lark-tits & Townsend in oak, then
first chickadee. 1:40 first sun today. 56°F.
3 pm 50% clear 54°F.

23 Nov Thanksgiving. Fog at 8 am open more
with sun at 9 - cirrus & short rolling cumulus
paper claims rain coming. 9:45 back to solid
high fog. 11 am fog has given way to high
cirrus getting thicker - a front coming
in. Both Linden tree & apple are fully
leaved, up to about 11:45 lots of bird
activity, then none evident except for
chickadee at feeder. 67°F. to Palo Alto 1:15

24 Nov both days overcast in am. clouds
from NW. Things wet from trace of rain.
Drive up - no hawks or vultures seen.
overcast with lightest of sprinkles in
Hayward area. at noon 58°F. 1 pm
intermittent sun & small patches of blue. 1:30
more blue & sun 58°F. thunderheads to W.
Fox Sp. with only 2/3 tail! a new one. 2:40
more open sky with long thin wisps of high
cirrus 3:22 pm fog in; towering cumuli to NW.

25 Nov. light rain after 6 am 50°F - 11:31 am
more heavier rain. Lots of activity in
last 1/2 hr. Medium rain afternoon, plus breeze.
2:15 a bit heavier, more wind, = 52°F



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25 Nov., ~~Belknap St. Bechela, Alameda Co., Calif.~~
2:25 pm heavy rain & wind. 3:30 general
dawn pour - dark; no wind. one robin &
one dove in w. elm. Rain last night: 6 pm $1.87''$

26 Nov. clear ~~45°F~~, everything wet & to
9:26 am. Rainfall = $.25$ total = $2.12''$

9:53 am bank of fog or cumulus to WNW &
suddenly a whisp of cumuli behind up st.
cedar. 10:21 am more & larger fluffy formless
cumuli forming to NW & moving NE.

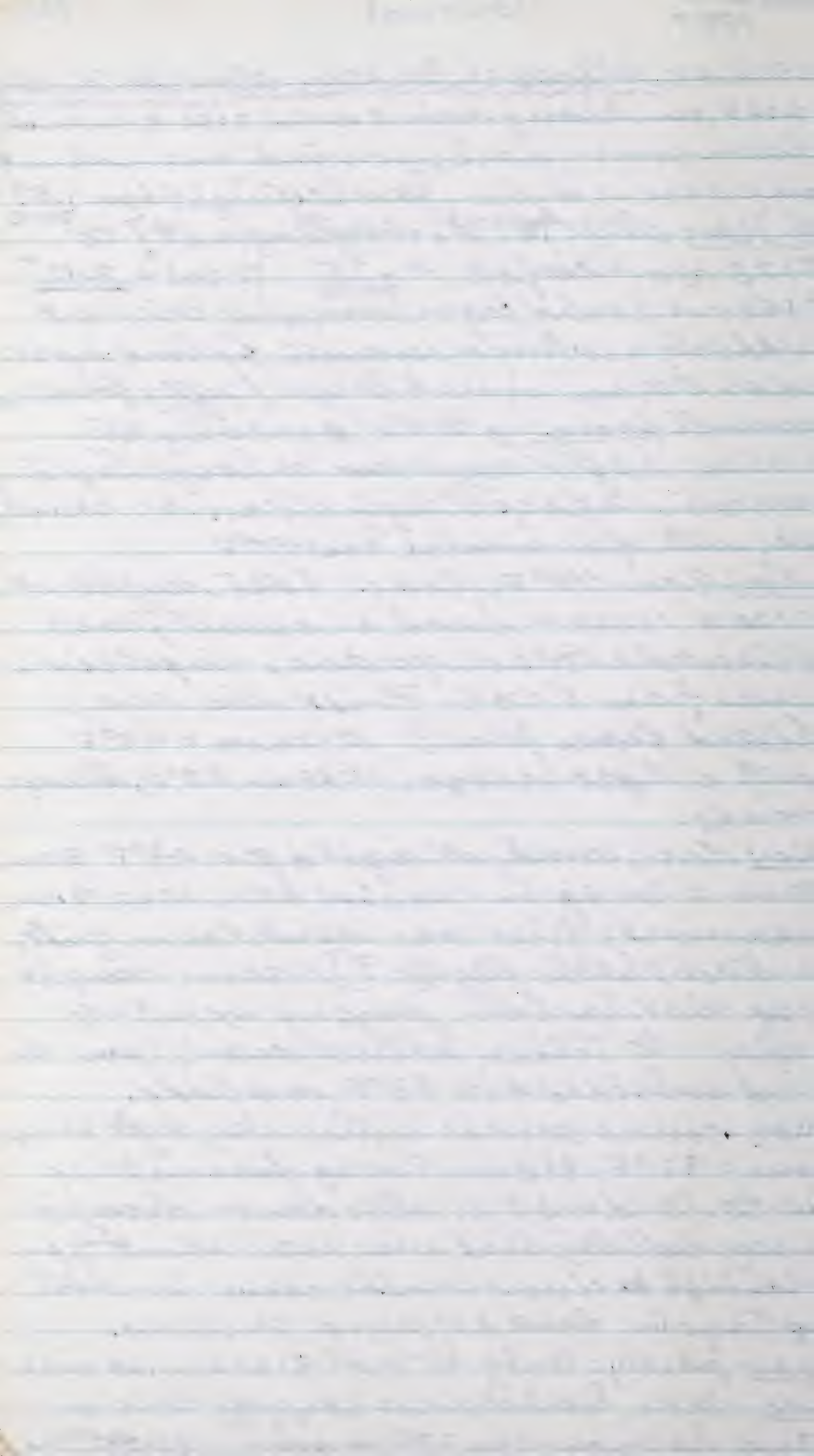
10:55 am half of my view is large billowing
cumuli. spectacularly clear. 6 - basically
clear with few cumulus. Now 47°F

27 Nov. 9 am 45°F, clear. Last night at
11:20 & 11:25 + heard a small flock
of Canada Geese go over. - impression
was from N to S. First line seen
heard from here! 10:26 am = 49°F
with a light breeze. 11:28 am 52°F, stronger
winds.

28 Nov clear, windy all night & a.m. 44°F 8 am
9:38 am 2 Fox Sq. in - one has been here 15 min.
2nd arrived; first one went down quite.
[? a black phoebe fly by?] 11:30 am caught
Fox Sq. that has been jumping up on D-4
feeder - to Tilden Nature area. 1 pm the
wind subsided & it's 53°F in shade.

29 Nov. cirrus across entire sky, light breeze
9 am = 47°F, 9:16 am Fox Sq. from oak up
line to landing & another down down pipe
a very dull day bird wise until about 3 pm
when high ~~the~~ cirrus clouds came in - both
spp Jays in, doves & of course towhees.

30 Nov partly cloudy 45°F at 8:30 am. no wind
1 Dec clear, bank of cirrus hangs off to W on
entire horizon. 3 pm 73°F in sun - clear, no wind

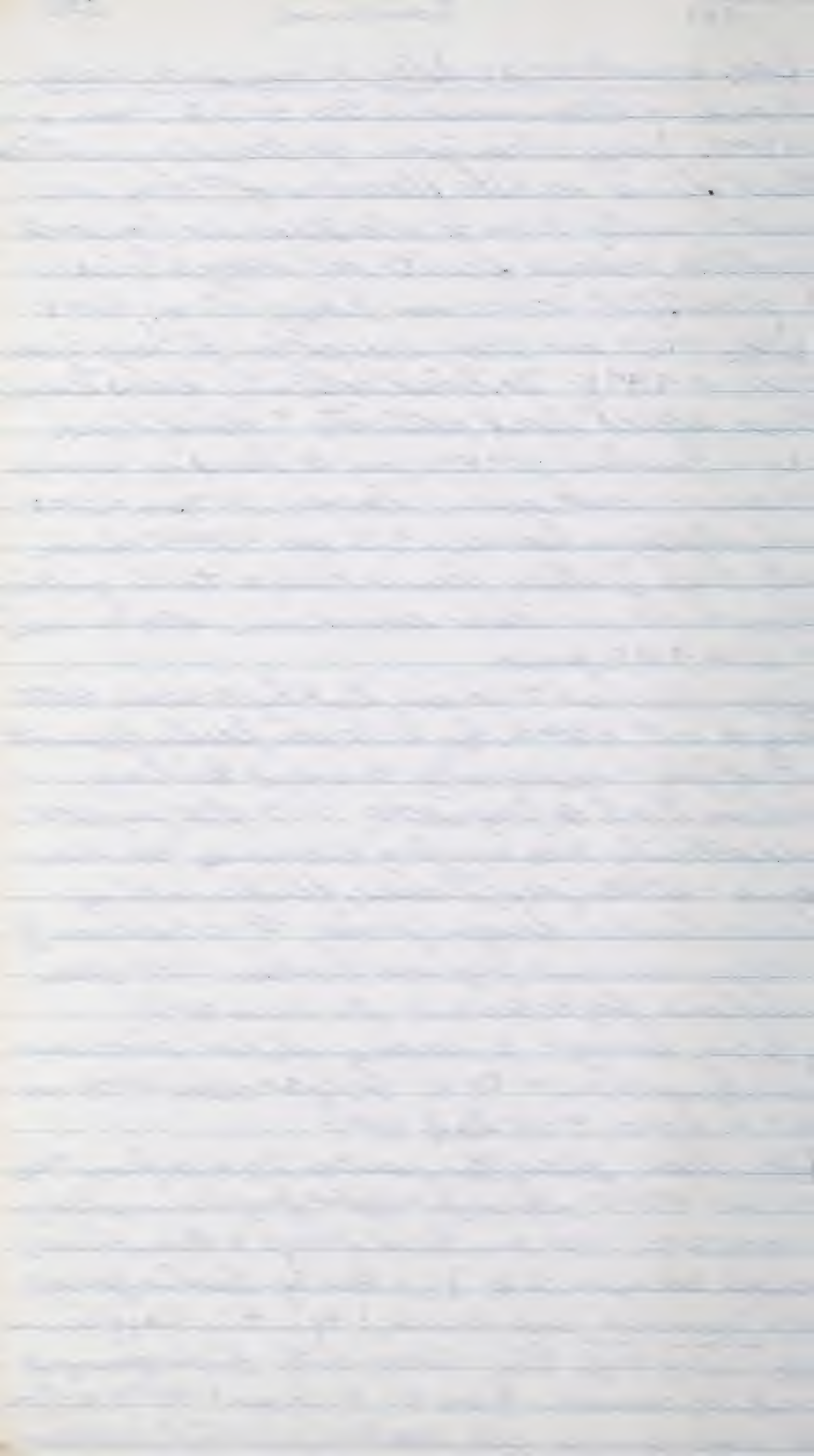


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1989

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- 2 Dec. del Norte St., Berkeley, Alameda Co., Calif
hands of altocumulus SW to NE. 9am =
48°F. hazy horizon. Yesterday noticed
* that first white flowers of Pittos are
out - only 2 or 3 clusters so far. and
mature orange fruits are very abundant
& plentiful. 10:22am hazy clear, 53°F
- 3 Dec. 9:30 am clear except for filmy cirrus
to W, = 48°F No bird activity. Does temper-
ature effect bird activity? Wind does.
9:30 1 towhee; 10:45 1 jay to landing near
in trees - not even doves. 1:17pm = 61°F
feels chilly in house. 4:31 pm = 59°F clear
with high feathery cirrus & haze to W. quiet day
- 4 Dec. 8:35 am clear except some altocumulus
to W = 46°F. quiet
- 5 Dec clear at 7:30 am, but by 8:30 am 80%
fog & at 53°F. By 10:30 am fairly clear with
bits of fog - especially toward the bay.
11:40am hazy to fog = 60°F 2:17 still fog; 61°F.
bird activity 2:30 pm fog titmouse towhees
scrub - steller jay, ⁽¹²⁾doves, flicker, calling
house finches, Oregon juncos, G-c. sparrow!
2:46 pm sun out fog now broken. 3:05 clear
overhead; fog to SW & W. dr sun 76°F
3:16 pm sunny - 2 mangroves or sycamore
tree height or + to N. bright clear 95% at
3:47 = 65°F. 5:35 dark 55°F
- 6 Dec clear, everything outside wet from dew
8:08 am = 47°F during night fog ham in Bay
10:30 = 53°F. 1:30 pm band of haze & thin cirrus
across horizon to W. New Fox sp. looks young.
2:02 manarch over house! 4pm thin hazy cirrus
- 7 Dec very high thin cirrus with disorganized
hands of cumulus from W. 8:20 am = 46°F. No fog
9:30 more cumulus under upper haze, indistinct shadows



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- 7 Dec, del Norte St, Berkeley, Alameda Co., Calif.
9:51 am sandy meaning general overcast
10:57 am one Fox Sq. sitting on 10" trunk
in oak. Another one in Pittos went down
line & jumped into N part of oak. For the
* first time today or this year I noticed
↓ a sprinkling of fresh green leaves on
a few of the "plane trees" or European
Gymnades on Marin St. and near
N. branch library. 95% leafless as an
overall impression. 11:42 pm. more
hazy - high thin cirrus - shadows sharper
= 58°F. 2:25 lighter less haze, feathery cirrus
= 62°F in sun. 4:48 pm almost clear except to
W. dust about 4:30; now 53°F.
- 8 Dec thin low fog; high thin cirrus with
some cumulus streamers. Very hazy
at all levels. 43°F at 8:30 & 47°F at 9:49
am. 11:05 am fairly bright haze with sharp
shadows - NO bird activity except 12:45
general overcast dull shadows 58°F. 4:40
still hazy, 53°F now some real clouds
to W.
- 9 Dec clear, only few high cumulus to N
9:45 am = 48°F. 2:04 pm = 60°F one monarch
to N.
- 10 Dec bright, clear & cool 9:49 = 48°F; was
wind during the night. mild clear day
- 11 Dec 8 am = 42°F clear occasional wind
heard 2 (?) Canada geese at 12:30 at night
49°F at 11:35 only occasional wind.
- 12 Dec clear - hazy on horizons & a few
thin high cirrus. 6:30 am = 38°F & 40
at 8:30 - cf. Cooper hawk acct.
- 13 Dec. clear, 39°F at 7:30 am strong N wind
43°F at 8:45. 1:30 caught Fox Sq. to tilden

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14 Dec, del Norte St. Berkeley, Alameda Co., CA
clear, 10:11 am = 48°F little bird activity
no doves. 12:20 pm 53°F .

15 Dec clear, cool all day. 11:51 = 53°F

16 Dec clear, very thin low fog hazy
horizons 44°F at 9:30 am. when some
high cirrus in from N.

17 Dec Fog all day with brief sun 3 pm at
4:17 = 50°F cool. Watched dawn stairs

18 Dec 8:22 am 45°F total fog, high. One
Fox Sq. on landing then dawn line to east;
now on dawn side walk across st.
hazy clear afternoon, cool all day

19 Dec thin fog at 8 cleared to hazy clear
& at 10:30 43°F . cool all day

20 Dec thin low fog, cold. clear above.

9:30 am 40°F . since about noon high cirrus
from SW, at 4:45 = 46°F cold all day.

21 Dec clear with few thin cirrus & hazy
fog, 10:30 am 43°F . 2 Fox Sq. they like
to sun on oak, etc trunks in a.m.

22 Dec clear, fog over hills, 35°F at 8 a.m.

12:55 handed beaver, two beavers orange Lt.

1:16 pm fairly bright sun; 49°F

23 Dec clear, 36°F at 7:30 am. few cirrus
off to W. 3:18 pm = 57°F cirrus over head
all day.

24 Dec clear with few cirrus, 36°F at 7:30; 9:43
= 40°F .

26 Dec - back in Berkeley, in P.A. to N. Hayward
were cirrus & overcast 12:30 pm here
clear with haze & smog.

27 Dec 8:46 am 43°F fog. 1 pm 47°F still fog
cumulus clouds & 90% cover - late pm

28 Dec clear & windy with fog banks far to E & N and
bits of fog going over, 8:50 = 38°F .

Christmas
89-90

Journal

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28 Dec., del Norte St. Berkeley, Alameda Co., Ca
2 pm no wind. 58°F. quiet day

29 Dec wind during night 53°F at 10:30
clear no wind now. 1 pm a monarch at
"cicle" 75 yds to NW. saw 60's & a few
cirrus to W. a little wind at night

30 Dec. clear, 9:30 am = 50°F light breeze.

A:16 = 57°F no breeze. Several times today

Jay, scrub top of NW elm, saw a robin
10' away but high a house finch, saw
lawn down 20-30' down = several dozen

31 Dec worked down stairs all am & to 3
Fog till 1 when hazy sun, few cirrus
3 pm = 58°F.

1 Jan '90 Surprise wake up to a moderate
- light rain which tapered off by 11 am

= 48°F. 11:44 a.m. 2 Fox Sq. in chase in
NW elm - 50-70' up. 12:15 rain back.

The squirrel chase continues. One seems
to be defending one of the "squirrel nests"
in S part of NW elm. dt (the ♀?) is flipping
tail which is very obvious - flashing
the ochrish ventral portion of tail! An-
other approaches nest to within 3-4' and
is chased 10-25' along a branch (6+
diameter). Then it returns to nest

This continued! Then a third sq. ap-
peared, but didn't approach nest
closer than 50'. at 4 PM = .78" rain

4:29 pm 45°F light rain. rain let up by dark

2 Jan clear, 37°F at 8:30 am quiet, still.

1 PM = 50°F and a slight breeze.

3 Jan. variable "fair weather" cumulus, at
9:15 am 40°F.

4 Jan clear some filmy cirrus to W 39°F at 9:30.

11:37 filmy cirrus now overhead 47°F outside

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1990

Journal

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5 Jan, del Norte St., Berkeley, Alameda Co., CA
clear with more filmy cirrus 37°F at
6:30 & 45°F at 10 am. cirrus in long thin
feathers from N, lightest breezes 60°F
outside upstairs as all temps. at 3:30 but
it's a cold day.

6 Jan first at 8 am few cirrus going E;
43°F then by 9 am fair w. cumulus & fog
to W as bay (heard fog horns off & on
during night). So at 9:27 heavy to W-SW
fairly clear but soft edges, 44°F fog
may come in. 10:23 fog coming in in
huge blobs, with high cirrus above the
few blobs.

7 Jan light rain at dawn; .10" at noon
& at 1:26 pm. 51°F a bit heavier & slight
breeze. Rain tapered off in evening.

8 Jan 8:30 broken clouds, -10% blue, 54°F.
10:30 am Big hole in clouds to W with a
low anamorphous low cumulus layer & cirrus
above, 1/3 - blue. = 59°F. closed up again
about noon; light misty rain at 1:10 pm.
Drizzle stopped by 2 pm. No more than 1 mil in
seen at a time so far today & no warming
3:56 heavy mist falling

9 Jan 7:15 am scattered clouds. Pretty much
clear by 8:30 am; = 49°F. 11:30 clear, hazy
hazy, no wind, 57°F. A storm is due
in tonight. Between 12:30 pm & 1:40 a bank
of high cirrus moved in from W; no breeze at
1:43 = 59°F upstairs no sun yet. 2:05 almost
overhead.

10 Jan variable clouds, 50°F at 8 am breezy
lots of bird activity, esp. 4 juncos, chickadees
H. Finches, towhees. Newspaper = heavy rain &
wind in Oregon & Washington

Christman
1990

Journal

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10 Jan., del Norte St., Berkeley, Alameda Co., Calif
- will start to bring in more water
ings, robins & B-T. pigeons. 4:44 pm
high cirrus all day, now heavier & darker
but still high = 55°F.

11 Jan. overcast - thin cirrus - haze. 9:45
am = 52°F.

12 Jan. started raining 6:15 ± am continued
variable 11:17 = 52°F. 2:12 downpour
2:17 very heavy & thunder. coming straight
down. 2:28 greatly diminished, 3 - stopped
4:30 rain again, 4:45 heavy.

12-13 Jan. Mix up on dates - did 2 missa day
rain several times during the night
total rain fall = 1.78". at 10:48 am 5°F

11 am getting darker light rain. 11:20 now
heavier rain. 2:06 light to moderate rain
all day = one flock of waxwings (-10) and
one robin in NW elm. so far. 2:38 sun out
briefly, still very light rain. 3:20 waxwings -
1 flock of 25 ± down to SW. 7 pm Rain, some
thunder close by & 46°F

14 Jan. watched that ball Rain =

15 Jan. yesterday was scattered shower
in am & variable clouds all afternoon.
at 8 am today clear but for cumulus
bank of clouds to W. at 9:20 they have
moved to S. = 55°F. at this time Fox
Sq. sunning on bench 24" from upper
nest in S part of NW elm. 1:49 pm after
thunderheads beginning to form WNW & bands
of high cirrus SW to NW above some cumuli
= 53°F in shade.

16 Jan. rain for 1-2 hrs. before dawn, then
scattered clouds, mainly cumulus; 9:38 = 42°F
in sun.
3:41 pm thunder heads SE & N; bright sun 58°F

Christmas
1990

Journal

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17 Jan.

at 8 am 38°F & spacklingly clear; 10:27
am = 42°F They are cutting down the
mass scattering only thru on the black.

18 Jan. clear, cold, 47°F at 10:34 am. Same all day

19 Jan fog over hills, misc. cirrus over
head & hazy w. horizon. at 9:30 37°F
9:30-10 am Fox Sq. near the closest or lower
nest in W. part of N. W. Elm - it was pulling
down - $1/4$ " branches & eating dead hanging
hubs. Noon = 44°F a few more cirrus not
quite bright sun. 2:30 = 50°F frequent
gusts of wind & almost no cirrus above.
3:45 more windy gusts = 53°F

20 Jan clear, cool 9:48 = 44°F , calm.

[yesterday about 3 pm a new Fox Sq.
appeared - down the drain pipe from
the roof - to N.E. it was smaller than
usual or thinner. almost yellow in
coloration. Rather ratty looking,
especially about neck & shoulder - I
scared it off - will it return. also,
yesterday that g. damn persistent Fox
Sq. tried 6+ times to come up line to
feed. I hit line with hammer stick.]

2:02 same Fox Sq. a large dark one
with beautiful full tail came out of
Pittos to line & to house. chased it back
to Pittos. Then it got on line to crab -
hit line to speed it on its way.

4:45 clear, calm = 55°F .

21 Jan clear, cool, calm. 47°F at 11 am

22 Jan high clouds & hazy low fog, 9:45 = 45°F
a band of cirrus past S-N from the W. & was dull
- hazy & no sun. at 11:45 clear, sharp shadows
as & now a breeze has come up. = 48°F

Christman
1970

Journal

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23 Jan, ~~del Norte St., Berkeley, Alameda Co., Calif.~~
Clear, calm, cool. 9:49 am 46° + 11:30 clear
but approaching haze from W to N. Little
bird activity today. 3 pm calm; clear except
for some N-S bands of thin cirrus off to W.
a very quiet day. High pressure zone

24 Jan clear with few cirrus to S & W, at 8:40
= 44° F. same sky all day

25 Jan 9:22 am = 42° F same cirrus sharp
shadows. 3:22 pm 63° F in the sun. haze
with heavy cirrus to W. 3:59 pm Fox Sq. in
up s of elm, S side, 50' up seems to be feeding
on buds of the elm. In last 3 days two
Fox Sq. - the yellow ~~skin~~ scrubby one which
is easily discouraged & the beautiful σ
which is not easily discouraged from
coming in from above Pittos. (last try
was about 2:30 pm) What happened to the
so-called ϕ in feeding nest, etc. Haven't seen

26 Jan 11 am. = 48° F, windy (N), clear & cool
High pressure regime. same all day

27 Jan 7:30 am 36° F, clear, calm, cold.

4:21 pm clear except for one cirrus to SW. Fox Sq.
feeding on W elm buds, 5' from top.

28 Jan clear, calm, cold at 9:30 = 41° F with
bands N-S bands of cirrus. clear all day

29 Jan overcast. 44° F at 7:30 am. 47° F at
8:22 am 8:30 + a very light mist. 9:10 am
a blue hole in overcast with some high
cirrus; no mist falling. 10:09 sun out
 $1/4$ sky is blue, low fuzzy clouds still. a
brief but dramatic Robin - wax wing frenzy.
Mist cumulus all afternoon

30 Jan light rain all night until 5:30 am = 33°
broken over at 8 am = 45° F, 10 am - 48° F
with variable clouds - mainly huge

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Journal

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30 Jan., ~~del Norte St. Berkeley, Alameda Co. Calif~~
dark cumuli. No wind. Much bird
activity: hard-tails, juncos, chickadees
titmice, G-c sparrows, even starlings
especially robins - waxwings 10:20 am
now almost clear with sparkling sun.

Thoughts of the day.

- 1) do waves of hantails come into
area with storms? as today -
hard to prove.
- 2) a feeding frenzy of robins - wax-
wings ended very abruptly about
10:20. Why? They didn't go to a
pyrocarcha up st next to side
walk! sun came out.
- 3) this is the numero uno feeding mixed
flock, i.e. robins & waxwings.

12:45 from NW a fairly heavy shower

1:18 rain stopped sun out, clear overhead
high clouds to SW & far to W. birds very
active. 2:12 has been clouding up again but
not as dark as at 1 pm. 3:20 pm getting dark
again. The landing & ledge mawdry from
shower at noon, except for puddle at low
end of drain pipe. 3:23 sprinkle starts;
heavier & same wind. From S. patch of
blue off to NW. 3:36 blue SW - NW; light
sprinkle now. 3:40 sun out higher another
to W. 3:58 light sprinkle, a bit of low sun. &
mainly cloudy. everywhere active. ^{after} cloudy

31 Jan. clear, calm, cold (at 8:08 am = 36°F)

and 10% cirrus in all sectors. 10 am =
43°F clear, except for bank (S-N) of cirrus off to
W. another storm due in tonight. 12:15 pm my
viewing area is now a solid gray of high cirrus
shadows up to 1:20 "hazy sunshine, now

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31 Jan., del Norte St., Berkeley, Alameda Co. CA
no cast shadows. 3:22 pm getting darker
15 doves & 20 ± robins about. a few singing.
when will it start raining. 4:49 to
first rain drops in small puddle at W. end
of landing & a few gusts of wind. light rain
about dark & on into night (8 am)

1 Feb. pretty clear with a few cirrus & cumulus.
39°F at 8:55 am. calm, cool, variable
cumulus all day

2 Feb. clear, slight breeze with several
small chunks of cirrus. 11 am = 48°F.
little activity. no robins about. 11:32 am
2 robins flew over, 3 doves 60' up in NW elm,
1 house finch - red ♂ to feeder, 1 towhee
- no singing, etc. High Pressure
regime. New filmy cirrus far to W.
12:22 pm new a few long bands of cirrus
NW in W. sector. More white flowers on
Pittos NW of house. 2:53 pm about 1/2
high filmy cirrus. sharp shadows.

3 Feb. 9:21 am = 48°F scattered cumulus
90 ± % cloud cover; no rain. Now a
storm system moving through, with
lower pressure. about 50 robins &
chickadees in trees with much calling &
singing - then a wave of 150+ warblers
came thru from NE with about 100
robins. Also doves & three bandtails
feeding. The wave took out all but
3 robins - so about 300 birds in
air at one time. 9:44 diffuse sun, darker to
W. to Palo Alto 11:30 → rain in late after-
noon & night there & back = 2 dead
chicks; no T. nuthatches & only 1 R-t. hawk.

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Journal

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4 Feb. del Norte St. Berkeley, Alameda Co., Cal.
Clear, calm cool noon = 45° F. Harbor
11:45 am. busy all afternoon

5 Feb variable clouds - minor, 8:30 = 39° F
calm 3 pm a bank of cirrus approaching
from W. a quiet day, not much activity.
More green leaves on Plane Trees on Main
ave. to SW to N solid clouds; a ragged
edge overhead & pretty clear to SE. but
SW wind & front is moving fast. 4:04
new complete cloud cover & dull, no sun
a suddenly flurry of robin activity - tops
of trees & a flight from SW.

6 Feb rain last night 12-6 am \pm = 1.48"
a.m. scattered clouds & 45° F. The little
pink plum NW of front porch is in full
bloom now. 4:00 F at 11:30. 2 pm 75% clear
breezy = 50° F a rather quick buildup of
dark clouds to NW - quiet to SW; slanting sun
5:30 trace of big cold drops & opening up.

7 Feb clear, COLD & calm. 30° F at 7 am.
8:51 = 36° F, but ice on roof puddles. Fox
Sq. in high limbs in elm up the St. eating
huds. Clear & quiet all day. 7:52 pm = 40° F

8 Feb 34° F at 7:30 am Variable cirrus &
ill-fanned cumulus clouds, esp. W. no
wind. 9:45 - 90% vague overcast. The
juncos & G. C. sparrows & Br. towhees
shelling millet - some times H. finds
many annulies by 3 with few spiracles.

9 Feb 10:20 = 50° F scattered diffuse cumulus
which acts like fog.

10 Feb calm, cool, clear, fog over bay early.
2:23 Fox Sq high in NW elm - climbing up to
terminal branches to eat the huds.

11 Feb hazy high cirrus, no sharp shadows

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11 Feb., del Norte St., Berkeley, Alameda Co., Cal.

48°F at 10 am, calm. 11:30 now an overcast very dull light & shadows 57°F. 2:20 pm clouds lower/darker & a little wind. 3:40 doves coming in to feed, three robins overhead, towhees in & G-C sp. & house finches about. an approaching storm & they want to "taul up" more doves seem at bent leg scrub jay in. only 2 house finches. G-C sp. shy to come in. a real "feeding frenzies" - a strong or long raining spell?

12 Feb. clear, calm - warmer, 50°F at 9:50 am 3:01 - 69°F in sun, slight breeze & some cumulus moving N toward W.

13 Feb clear, windy cool, 11:20 = 42°F no robins about. 1:45 pm There have been some small cumulus to W; now more & getting bigger. Also an irregular band of cirrus N to S off to W & more of a breeze. The cirrus are moving overhead. Looks like a complete cloud cover of cumuli to W. The heat of the day changes the form of cumulus clouds into more discrete, sharper edges, etc. 2:27 pm cumulus accumulation (? a thunderhead?) darker & appears to be going SE with a defined edge on NW side. There has been very little bird activity today. doves in early. 3:28 these clouds are past. a new broader bank of clouds to NW. Fox Sq. feeding on new developing buds 1/2 way up N. elm. 4:08 another storm, etc in Marin Co (N) now it's raining S., clear overhead, periodic wind. 4:33 clear except cumulus to SW over SE 4:53 Sun going down - a flurry of activity -

14 Feb clear, calm cold - 7:30 am = 30°F

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Journal

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14 Feb., del Norte St., Berkeley, Alameda Co., CA
8:45 am - 33°F now a light wind
blowing. 9:32 14 gulls - most adult
plumage low overhead from SE to W/
NW being buffeted by wind. 9:58 another
flock of about 20 gulls from S to NW.
1:28 pm 45°F clear, occasional stiff winds.

15 Feb. 28°F outside at 6:30; 8:11 = 33°F
calm, hazy high clouds lots of rabin
talk. 10:51 am very dull sun with diffused
shadows. It is becoming a general
overcast now. These cyclonic storms
take hours to come in - getting darker
& an overall light gray with no "form"
of clouds. a small berry feeding. 11:57 - 50°F.
2 pm 1/2+ clear with a few high cirrus & banks
of cumulus SE to NW. Now clouds more form
& value - broad cirrus to W, with a few
bands overhead - 49°F. 3:13 more horizon-
tal cumulus S to N; shallow, discrete.
3:25 pm - calm bright sun, dark to W. cirrus above
thicker cumulus. 4:32 scattered cumuli 90%
Fox Sq. in S part NW elm another aggressive one in
Pittos. 5:45 almost dark; cumulus low & dark
6:45 pm = 45°F. light rain at 7:15

16 Feb rain; 45°F at 6:30 good breeze.

.54" since 7:15 pm last night (8 am).
8-8:30 light rain - gusts of wind = feeding
juncos, tanagers, G-C. Sparrow, House
finches (2♀, 3+♂). No robins in elms
etc. 8:55 am heavier rain - can only see 1 dove
in NW elm. 9:45 a bit heavier rain & some
gusts of wind - all took cover. Chunks of dark
clouds going N, fast. 11 am. driving rain, same
wind. 11:26 am rain lighted up, no wind.
= 40°F.

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16 Feb, del Norte St. Berkeley, Alameda Co. Calif.

12:16 pm rain has let up, almost quiet.

1:10 pm much lighter, no blue, no rain — since this a.m. reading, has been .97"

of rain! 3 pm 47°F few patches of blue, calm.

3:08 Fox Sq. feeding on buds in NW elm.

S side 55' up. 3:16 huge cumuli to North small wisps of lower stuff. 3:57 90%

clear, 54°F in sun. 4:39 Fox Sq high in an elm eating buds - flowers. 6:30 pm 39°F

with few very dark cumuli at dark.

17 Feb rain continues from light to

heavy showers including hail. 36°F at 9:14 am. Rain 6 pm yesterday = .23"

3:48 pm mainly open to SW - N with a line of cumulus & towering C. to W - NW. heavy

clouds to S. = 56°F in sun. 4:19 out of WSW some high cirrus & huge (towering?) cumuli

4:32 low angle sun, but 90% is huge clouds & holes, getting darker

18 Feb, COLD - ice in puddles, calm with grazing cumuli, 40°F at side at 10:45

am. 11:41 am 43°F well defined cumuli from the N. little bird activity 2 robins, dove fed

early, not about now, House finches in

late - 11:30. clouds increased to 2:45 pm ± more clearing at 3:27 = 66°F in sun and dawns.

6:40 dark, clear, calm, 42°F.

19 Feb clear, calm cool 43°F at 10 am, with 5% cirrus exp. to W. barigone. 49°F at noon

very quiet day, only 2 robins. 2:50 bank of cirrus to W getting higher & closer = 65°F.

20 Feb. calm, high cirrus, some layered, no shadows; at 8:50 am 41°F. General overcast, 49°F at 11:15 pm

21 Feb misc. cumulus to 11:30 then fairly clear

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Journal

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21 Feb., del Norte St., Berkeley, Alameda Co., CA
when its 51°F little bird activity.

22 Feb clear, except hazy cirrus to SW,
a NE breeze, 50°F at 8:30 am, 8:53
am? Fox Sq. emerged from upper nest &
is feeding on elm buds - flowers 6'
away. 3:23 pm 80°F in sun outside. Some
high feathery cirrus. breezy all day. little
activity during afternoon.

23 Feb high thin cirrus, very light breeze,
59°F at 10:30.

24 Feb very hazy with high cirrus at 9 am
= 54°F calm. 1:04 pm first monarch to
N below tree level. an almost balmy day
(3:53 = 79°F outside in sun) The haze
is now bands of well formed cirrus &
high cumulus. 5:22 pm leaves high clouds
- 1/3 blue,

25 Feb an unusual low fog but fog
horns started about 6 am. By 8:24 am
sun thru holes in fog - 47°F. 10:36 am, -
15% cirrus over head, hazy cirrus SW-NW; 54°F.

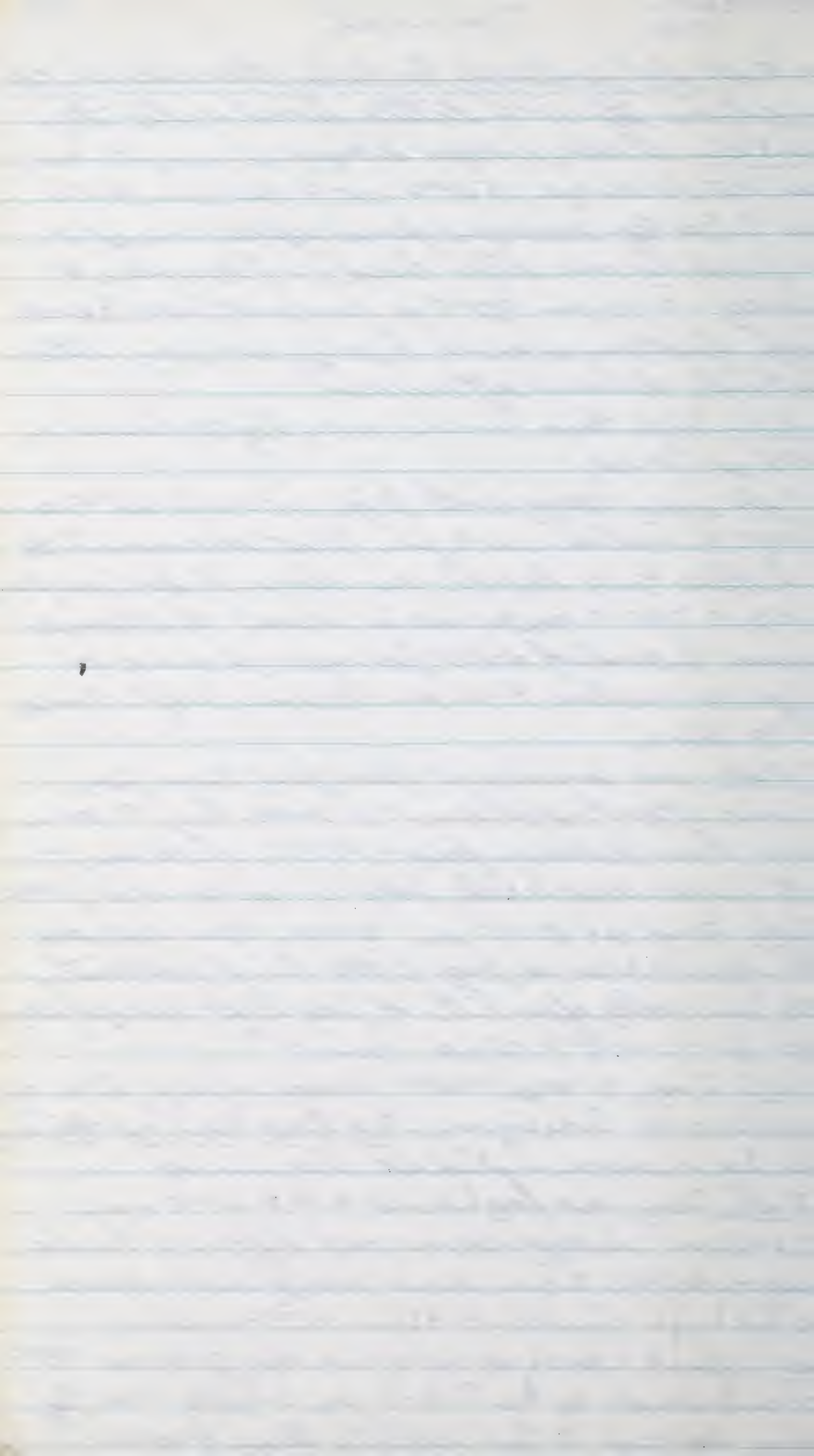
26 Feb Fog. at 10:27 am 51°F. 11 am sun out
with a few holes in fog. little bird activity.
12:06 pm only few bits of fog left, hazy sun
52°F. 6:19 = 48°F clear, cool.

27 Feb Fog, 8:30 am 46°F areas of hazy blue off
to entire W. horizon. No fog horns this am
clear by noon - didn't warm up

28 Feb Fog, no fog horns 47°F at 8 am.

12:46 pm. hazy sun and diffuse broken
fog - 55°F. 2 pm now hazy sun seems
to be high cirrus. 4:47 pm 57°F in sun.

1 Mar cloud cover, no sun, no sky. 8:47 am 48°F.
cut a branch in the Pittos on which Fox Sq.
gain access to the whility line from



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Journal

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1 Mar., ~~del Norte St., Berkeley, Alameda Co., Calif.~~
across the street to NW corner of house
& touches the cab. The smaller, same
what ragged, more yellow one
has used another branch! 4 pm new
a low uniform gray of an approaching storm

2 Mar a very light rain started about
4:30 am., stopped by 8. 8:38 raining
a bit heavier than before. Fox G. active in
rain, but seem to prefer to be in broad
leaved trees. NW elm is out in green now,
from developing samaras 1:30 pm was
out for 1/2 hr with no rain 1:44 light rain
again - so far a steady light rain. Fair
amount of bird activity but so far only one
flock of waxwings & no robins about. 3 pm
rain a bit harder - doves, treehees, G-C Sparrows
& House F. feeding (latter D-4). 4 pm a bit lighter,
a few drops.

3 Mar 7 am scattered blue & low clouds. 8 am
fog - low in elms! 1:17 pm 56°F outdoors
hazy clear, lots of sky. Tapering cumuli to SW-NW
with some high thin cirrus and diffuse
fog chunks moving in. 5:01 pm bright sun
the tapering cumuli to the NW are obscured
by fog at the GG; few high cirrus; but fog is
coming in & a storm. 5:11 pm Fog now 90° to 55°

4 Mar low clouds or fog at dawn, a very
light rain at 9 am = 49°F, 9:51 a real light
rain now with gusts of wind 11 am. The showers
have been very brief & breezes only occasional
11:48 pm = 52°F now moderate rain - 2 down on
line touched up. Shower ended 12:50 with open
patches of blue; up to 1:10 pm .38" rain - maybe
some leftover from last time. More clouds
again. 2:04 sprinkles just began again

4 Mar., del Norte St., Berkeley, Alameda Co., Cal.
 2:36 pm rain has stopped & breaks in clouds
 & sun out. 6:10 scattered lark clouds = 47°F
 clear to \pm .

5 Mar. 8:10 am clear - 43°F. Just light at 6 am
 one robin calling - no songs. 3 pm clear
 no wind, over 70°F in sun. Little bird activity
 today. 6:10 sun just down = 52°F same
 cirrus - cumulus off W = S to NW. No wind.

6 Mar. 8:17 am 44°F clear calm; heavy
 dew last night. 11:59 am 2 white butterflies
 flew by - 56°F. 3:27 same = 74°F in sun
 quiet day. Put out a whole heart English
 muffin ($\frac{1}{2}$) + a little peanut butter - S.O.B.
 ate it avidly - so I'll trap it. 6:12 bands
 of cirrus off to W. TV = same in 3 pm. \pm

7 Mar. 10:50 am out all a.m. clouded up
 over night. Now 53°F a few times of thin
 diffuse sun. Cloud cover until \pm 3 when
 appeared up. 58°F in sun. grass starts
 from west thru Fox G. chased hand - t.
 away. 4:58 pm lots of activity B-t., juncos,
 H.F. doves cooing

8 Mar. clear, calm, 38°F at 7 am. These cool
 high pressure regimes are keeping
 temps. down. Spring is rapidly advancing

8:23 am a few ill formed, small cumulus
 clouds forming over head. 10:20 am 45°F occ.

breezes more fuzzy cumuli - from N with
 a heavy band to W. 10:49 a.m. about 75% cloud
 cover. By noon fewer cumuli, but now
 well formed & a few just beginning to rise.
 deep blue sky, sharp shadows. Bright = 67°F.

4:32 pm strings of cumuli N to S. No thunder heard today.
 6:14 sundown - twilight, clear, = 50°F. Quite clear yet

stellar jay calls

"Tchek" + loud, harsh, ringing

"kweesch" + loud

chu-chu-

keē-lu, keē-lu

18th Nov 1881

Dear Mr. [unclear]

I have [unclear]

the [unclear]

Yours [unclear]

[unclear]

Christman
1990

Journal

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9 Mar, ~~del Norte St. Berkeley, Alameda Co. Calif.~~
clear, calm & cold - 36°F at 6:30 am, 42°F
at 7:56. 8:52 long streamers of cirrus
from S to N - no wind. 3 p.m. about the
same 70°F in sun, & Fox Sq. feeding on
samaras on NW elm 70' over street, & dropping
bits & pieces. 4:10 more thin cirrus. 6:11 pm
= 52°F clear, but for a few thin cirrus to SW. day
10 Mar wake at 7 with a light rain; 8:52 am
= 45°F . 9:35 at least one chickadee & 1
Kinglet foraging in aab - light rain. Juncos
on landing. Then brush-tits - 7 \pm , which
flew into Pittos to N. One robin flew by 1 hr.
ago! 10:05 am some wind noise. 10:10 quite
suddenly the sky lightened - no sun. w
horizon is light clouds, very light sprinkles.
10:26 rain stopped. 12 - first sun & patches of
blue with clouds going N. 12:20 75% clear
 52°F . 2:30 windy & cold. From almost clear
to now more cumuli & some high stuff. 25% open
Fox several months now a very aggressive
Fox Sq. has been ~~the~~ scaring my birds - have
been scaring it away. Have lost all patience
will trap & kill it - a first. NOW - cloud
ing up 100% = 53°F . 5:09 pm. complete cloud
cover; doves & tumbrels in. 5:27 am in NW elm
feeding on samaras; the aggressive σ on line
next to Pittos. Chattering at me. Heavy clouds to
N. some open areas to W. = 49°F . 6:03 past sun-
down 80% clouds Fox Sq. in NW elm, 5' or high, feeding
on samaras. 6:18 almost dark, heavy cumulus Fox
Sq. ran down main trunk to W. Where is her nest?
11 Mar 7:30 am calm, cold (36°F) & clear, except
for towering cumuli over San Mateo Co., hills
10:10 am = 45°F outside are small cumuli to W.
11:47 am a few more, larger cumuli to W.

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Journal

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11 Mar, del Norte St., Berkeley, Alameda Co., Cal.

12:02 pm the cloud has grown & is fairly stationary WNW, $\frac{1}{2}$ mile across. 12:32 just returned from Tilden Park where I released the extremely aggressive Fox Sq. I trapped an peanut-butter-dry Ratdog here! The S.O.D. can raid feeders there! 12:43 still a few clouds, bright sun, & a few well defined small cirrus above - from S (?). No, cirrus to S. The cumulus much larger almost overhead. 3:46 still lots of blue sky with cumulus (esp. N & E) but more patches of cirrus. The Fox Sq. was another! The S.O.D. is back so put out a piece of bark. 4:27 6 doves & about 8 finches 4:43 wind, cloud S.

12 Mar. 8:12 am = 40°F, clear, calm & again towering cumuli to S in S. Mateo Co. Today they seem to be gearing up to trim elms on the st. a crisp day. with cumulus build up now over coastal hills in Marin Co. none - overhead. 11:32 am trimmers have left, after trimming only 2 trees. 11:45 am = 47°F small cumulus overhead. Trimmed NW part of NW elm 1:30 - 2:45. 3:52 sky mainly marvelous cumulus clouds. 4 pm a new big ♂ Fox Sq (total 2 new) bath near down line 6 of few lig & cumuli & left = 53°F

13 Mar. Hazy with diffuse high clouds & a few cirrus. 37°F at 7 am. 8:52 starting to trim NW elm. 11:46 am They finished for morning. NW elm was very judiciously trimmed, mainly lower $\frac{1}{2}$ amount of samaras cut is less than say 20%. almost clear bands of high diffuse-hazy cirrus from S. 2:45 clear, hazy cirrus to W. 4:10 pm more high filmy cirrus to W. increasing complete multilayered cloud cover = 51°F.

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Journal

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14 Mar, ~~at note 50, Berkeley, Alameda Co., Calif~~
8am out 6.50am overcast, dark to be
now some dull sun + 47°F 9:55 now
opened up to blue sky, diffused sun
with feathery high cirrus. 11:12am low
cumulo-nimbus? have moved in for
a general overcast. 46°F 2:34 lowering
overcast, 55°F feels colder. 5:50 since 3pm
a light mist.

15 Mar clear at 6am. 8am = 55°F upstairs-out
with some high feathery cirrus. Clear
at 9am - hazy to W. horizon. 10:05 more
high cirrus to W. 11:14 more cirrus layers to
W. & entire sky is diffuse, tho shadows are
fairly crisp - 59°F in kitchen patio; 58°F upstairs
12:45pm now general high thin overcast
with shadows. 1:59pm a few holes of blue, rest
hazy cirrus. 2:41pm now sunny - one
monarch to N mid-level of oak, landed briefly
on a Pittos. when before (other years) did I
see them in spring? has been about 60° then
in sun - up to 77°F. 3:57 was 75% blue, no
great plumes of hazy-feathery at edges from
SW 60% of sky = 68°F in sun. 4:18 1 Fox feeding
on samaras - 2 wrens, other being persistent.

16 Mar. calm, overcast, 8:16am 52°F on
war in air, all Plane trees are now out in
leaf. 8:52 very diffuse sunlight - shadows
I have heard several unfamiliar calls
this a.m. Have not seen Halcyon-cicadas
lately. 11:44 sun out, sharp shadows but
still overcast. 1:48pm hazy sun. 1 monarch
N by Pittos. 1:42 another monarch, strong
flight over oak to N. 3:04pm 68° no sun, now
clouds are thicker. I put out "hen scratch"
from pot stars - saw 5 wood-tails - love it.

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1990

Journal

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16 Mar., del Norte St., Berkeley, Alameda Co., Calif.
5:52 complete cloud cover: 59°F a
hint of sun far to W. as buff-pink
infusion. Doves & towhees feeding
on the little of + gr. of seed.

17 Mar. overcast, calm, 50°F. 9:09 am diffuse
sun. 10 - 10:30 am sky opened up to sunny
with high cirrus & lower hazy cumulus 5°F
to Palmdale this noon. 11:32 darker, no
sun; a few medium big drops are falling. 3:55
pm back home! The adventure with my
pinto in San Leandro! Since noon increased
clearing - now a few scattered cumuli to W
with 67°F in sun.

18 Mar. Low fog 50°F at 8 am. 9:11 one bird
in smaller than ♀ H. finch a strong white wing
bar, thinner bill, no yellow - Pine siskin?
feeding with doves & 1 house finch. 10:50 am
from hazy sun to now blue overhead & fog
only on the edges = 54°F NW EIM - re: trim-
ming - the lower, more SE Fat Sq. nest was
(its limb, i.e.) was dropped; leaving one
"the upper" nest. 1:21 pm 60°F. 3 pm - 80°F in sun.
3:11 That "siskin" is on the landing with
chickadees & H. Finches at feeder - no yellow
pale but head has a yellow tinge. 3:26 pm
siskin, smaller, less bulky than H.F. at feeder
but was pecking at seeds thru the plastic
cylinder - didn't find the openings next to
perches - bill much thinner than H.F. & looks
larger. 4:56 pm high cirrus off to SW = 65°F.

19 Mar. fog early at 9 hazy sunshine. Noon
except for a band of blue off to far W. its
completely overcast with vague shadows.
2 Fat Sq. among the tamaracs in NW clus.
4 pm still overcast. 9:46 pm 50°F

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Journal

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20 Mar. ~~del Norte St. Berkeley, Alameda Co., Calif.~~
clear, 8:27 am = 52°F calm, quiet. 12:32
clear, 64°F. hazy cirrus off to W 1 pm Fox
Sq. among samaras - none to house so far
today. 3:31 cirrus now over entire W. sky (N &
= 80°F in sun. This is indeed the first day
of spring; what a very quiet and mild
rise.

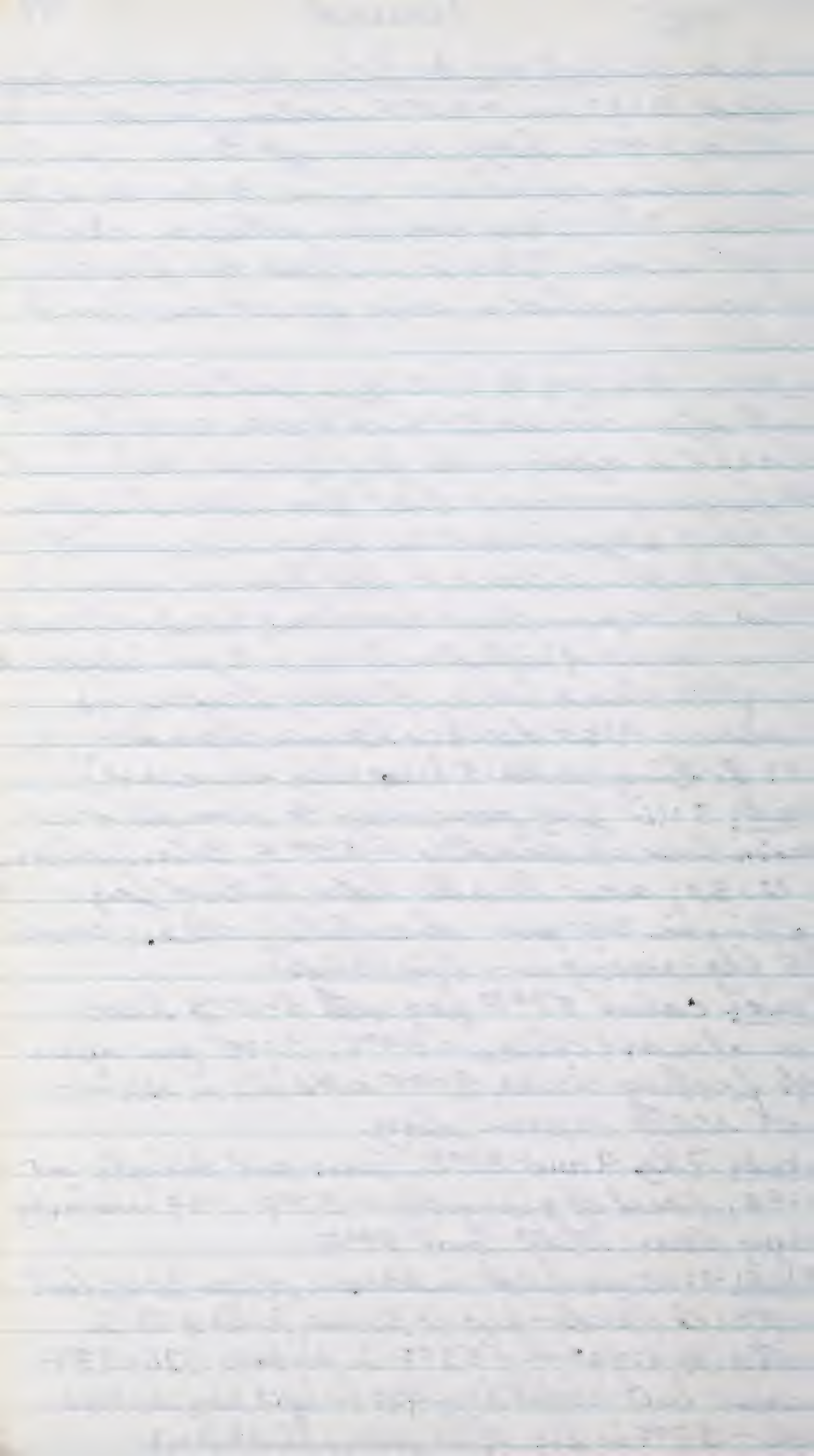
21 Mar. thin fog to 7:45 then partial clearing
with few cirrus. 51°F at 8:00. 8:13 fog
closed in again - no fog horns this a.m!
It keeps opening a bit then closed again
at best hazy sun 9:22 hazy clear with
lots of high cirrus & fog horns never!
61°F at 12:25 p.m. clear overhead; bank of cirrus W
1:13 pm layers of high clouds to W. 3 pm almost
complete cloud cover of many layers no
shadows. 4:30 darker lower clouds -
4:57 getting darker & heavier overcast.

2 Mar 8:16 fog gave way to clouds of a
nimbus character = 50°F slow clearing
to 12:30; now looks like bits of fog
drifting in. 3:31 pm absolutely clear, cool.
4:35 fog coming in - big clouds

23 Mar. calm 51°F fog with 5-10% blue
sun almost clear. = 54°F. 2:45 pm a few
high feathery cirrus. 80°F outside in sun -
first really warm day.

24 Mar. Fog. 9 am = 51°F. Sun out briefly at
11:48, closed up promptly = 57°F 1:54 mainly
hazy clear, still cool 59°F.

25 Mar 9:30 am back in house, clear here, but
scattered clouds - fog to Faver hills & to S.
quiet a.m. 9:54 am. = 52°F in shade. 11:26 = 53°F
a case but bright day. 4:18 bright day, breeze
cool - 58°F in sun. A few annali about.



Christman
1990

Journal

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26 Mar. ~~del Norte St. Berkeley, Alameda Co. Calif.~~
clear, calm, dew, 44°F at 8:26 am - quickly
5 pm several doves, a towhee, 1 junco, 1/203
4 finches, Band-tails flitted but flew.
6:02 before sundown - the aggressive ♂ in
NW elm feeding on samaras. The other ♂
caught at 3:30 on landing - caught
release mañana! (= on Madoc-Salmon Ave)

27 Mar. 8:10 a.m. 48°F, dew, clear here,
fog about edges. More tree trimming
today. Caught Fox Sq. to Salmon Ave. 12:30
56°F a cool W. breeze. 1:11 pm fuzzy chunks
of fog coming in. 3 on fog.

28 Mar 8:05 am 52°F; broken fog 8:43
tree trimmers starting: on Zukelm with 1
fox sq. high in upper branches and
another on trunks lower down. 8:48
Fox Sq. ran along 2" branches of NW elm
then higher - among the samaras. 10:42
am clear cool = 54°F. The Trimmers
cut the main W. elm yesterday - of all
small branches up to 50' & are now cutting
#2 just about as severely. This saddens
me. This will restrict the Fox Sq. which
may chase them over here out of
the neighbor hood. 3:05 pm 74°F in sun -
a breeze & the first fingers of fog appearing.
6:13 pm clear = 54°F a few small pieces of fog.
6:44 more fog in, 75% clear - quiet evening
29 Mar. fog, sun out by 8 am = 50°F 9:30 am 53°F
clear except high cirrus to W - NW & what
appears to be a bank of cirrus S to NE in
distance. Trimming started at 9:28 with
chain saw. Fox Sq. in at 7 am. Left at 11:40
noon - clearer but some cirrus, = 57°F. 12:12 Fox Sq.
eating samaras 70' up in second elm.

The first thing I noticed when I stepped
 out of the car was the cold. It was a
 sharp contrast to the warm blanket of the
 car. I shivered slightly, but then I
 remembered that this was the first day of
 winter. I had heard that the weather was
 beautiful, but I didn't realize it would be
 so cold. I pulled my coat tighter around
 me and walked towards the entrance of the
 building. The door was open, and I
 stepped inside. The interior was warm and
 inviting. I took a deep breath and
 smiled. This was exactly what I needed.
 I had been looking forward to this day for
 so long. I had heard that the weather was
 perfect, and now I was here. I was
 finally in the place I had been dreaming
 of. I walked through the hallways, and
 I saw people everywhere. They were all
 dressed in winter clothes, and they were
 all smiling. It was a wonderful sight.
 I had never seen so many people so happy
 before. I felt like I had found a new
 world. I was in the heart of the city,
 and I was surrounded by people who were
 just like me. I was finally home.

Mistman
1990

Journal

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29 Mar., Almaden, Berkeley, Alameda Co. Calif.
3-4 fog coming in & stacked up against
hills. 4:36 no sun = 57°F . 6:23 95% cloud
cover; 50°F . Thinner trees!

30 Mar. Fog, 9am first sun out - 50% open
hazy fog clumps = 52°F . 9:35 am sunny
almost clear, 53°F - 1 monarch from S
to N level with me 20' away.

31 Mar fog at 9 = 48°F clear by noon -
2pm = 55°F . Daylight Saving Time clear,
breeze, in sun up stairs = 57°F . cool day

2 Apr 10:20 am fog to 9:30, now clear except
for a few long streamers of cirrus = 50°F .

2 Fox Sq. among sycamores/Navelin; big
chase about trunk & large limbs of 2nd
elm C.E. first acacia st. 3:40 just back
from S.F. bright day the cool; here 7P
in sun. 4:39 pm 1 monarch top of oak
high to N and fast, unusual!

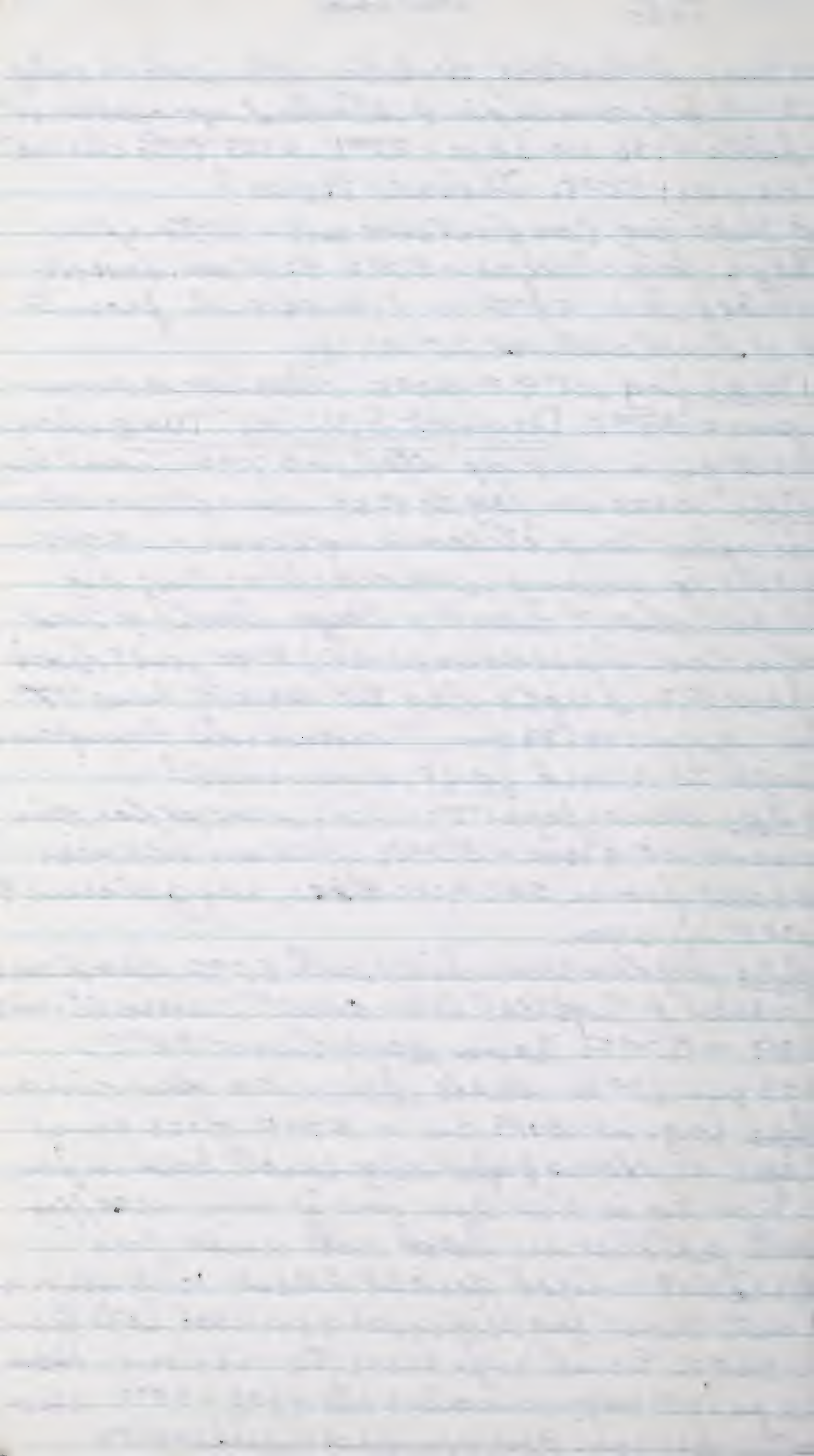
3 Apr minor fog at 7; clear except for thin
cirrus at 8 am. = 50°F . 11:53 am heavier
cirrus from SW. 4:12 clear, hazy cirrus &
 90°F in sun.

4 Apr fog low over hills with 80% cloud cover
of cirrus & typical like small cumuli. at
6:39 = 50°F . Noon hazy clear = 56°F .

3:03 pm 60° in shade clear, warm few cirrus.

5 Apr fog. at 10:14 am = 57°F . 10:23 first
vague shadows & few very small halos in fog.

2 Fox Sq. in this am. one is very scruffy
with patches on back with under fur
spiculated - last quail hairs - 10:55 sun in
& out. Most fog dispersed over head lots low
= 56°F . Some high discrete cirrus. Hum
one on 1:50 hazy - cumuli & bits of fog = 58°F . also
rather breezy. 3pm overcast clouds = 57°F



Christman
1990

Journal

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5 Apr. ad route st. Berkeley, Alameda Co., Calif.

6:34 broken sun with high cirrus & new
fog moving in. = 55°

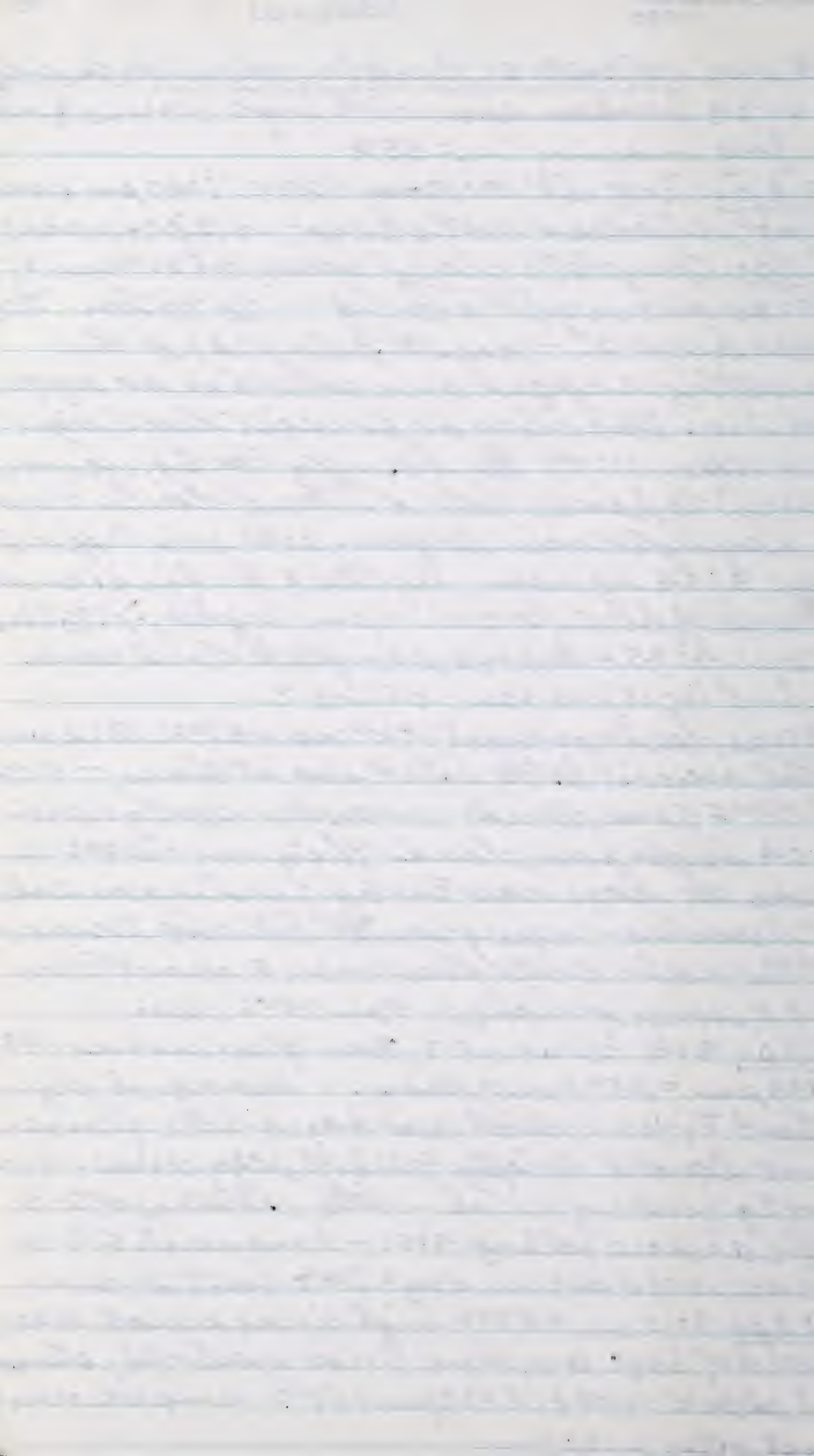
6 Apr. Fog, at 10:18 am, 52° F. 1:40 pm sun
out, shadows not sharp - still overcast

7 Apr. Complete cloud cover, at 8:56 am 51°
10:30 am caught a Fox Sq. - to telden. There
have been 2 - a well pelaged 1 & the
molting ragged one which is so aggres-
sive. The clouds persist dull light
no sun. 11:44 the scruffy Fox Sq. up wire
(line) to house lots of head-tails. 2 p.m.
a very light rain began. 2:50 rain tapered
off. 3:04 no rain, lighter & the first small
streaks of blue to SW. 4 pm light, 71% blue
to W. 4:25 a breeze, complete cloud cover,
but light, no rain since 3.

8 Apr. cloudy overcast, 9:07 am = 51° F. 12:16 pm
still overcast with bits of sun at times, - 50°
= 59° F same clouds - cumulus really develop.
3:04 bright sun, clouds thinner = 64° F in
sun. An hour new Fox Sq. feeding on ends
of branches - new growth but not leaves
of the aab. white flowers on E. most Pittos
at N corner of house. 4 pm 75% clear

9 Apr. 8:41 clear at 7, new few cirrus = 48°
1:33 pm = 65° F and leaves. 1 monarch flying
about Pittos which now has white flowers
- it landed briefly. 4:21 high raggy cirrus. 4:24
Fox Sq. feeding in aab - little clusters of 2-5
leaves are falling 4:51 - 1 monarch S to N.
now nice warm day = 74° F partial sun -

10 Apr. 8:12 am = 53° F high cirrus overcast. 12:09
dark of haze to W, more cirrus overhead, sharp
shadows. = 65° F. 3:39 pm = 67° F complete over-
cast after 2:30 pm.

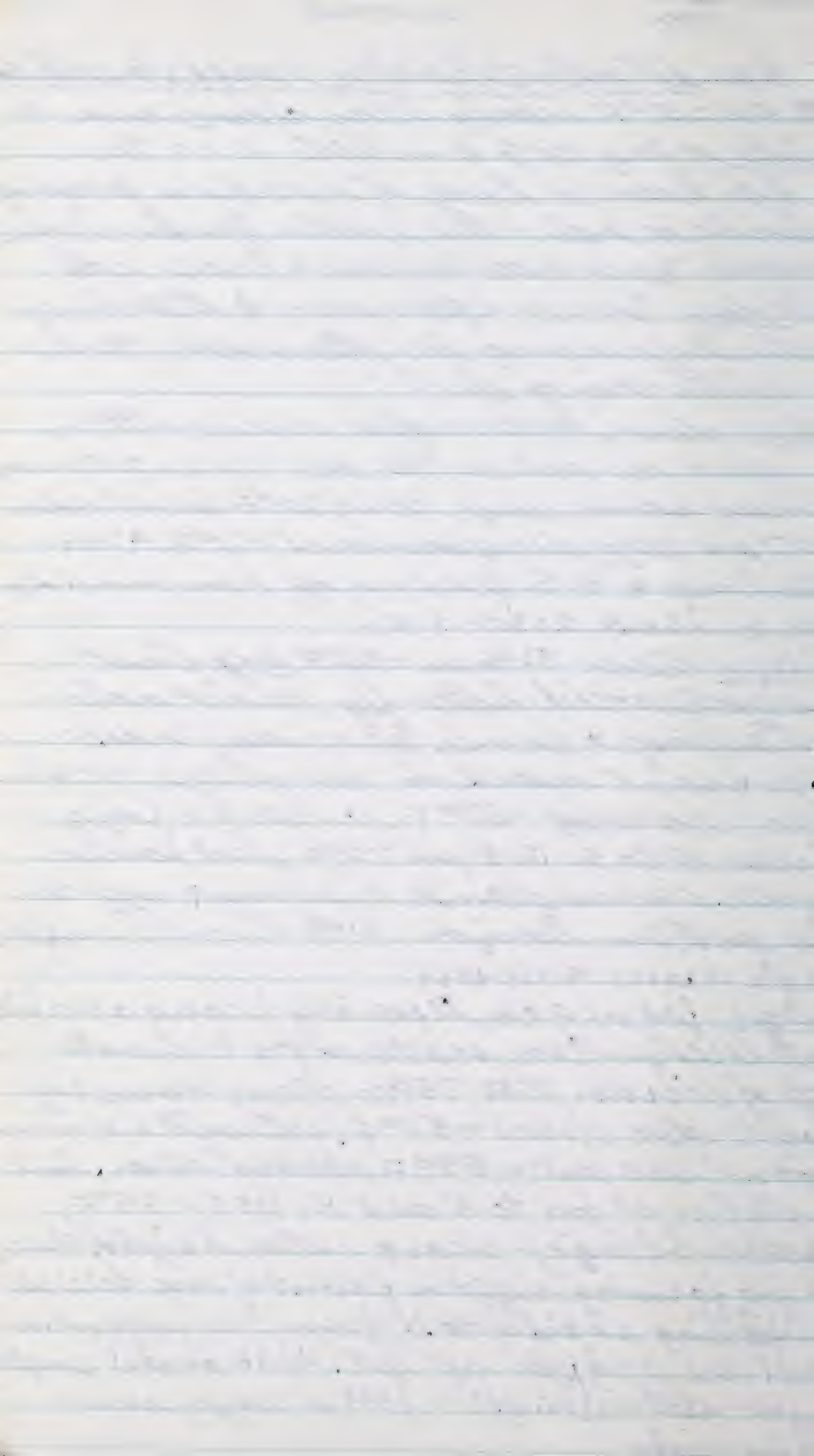


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- 11 Apr., del Norte St., Berkeley Alameda Co., California
8:06 = 57°F mainly clear, a few cirrus &
bits of fog to S & in hills. 10:08 there
★ has been a lull of weeks in foraging
birds in oak - the winter feeders have
gone. Now new leaves & grass add
today. House sparrows & Starlings
actively foraging. In afternoon: towhee
& white-crown also!
- 12 Apr. clear, by 10:10 few cirrus = 59°F.
10:am + no one in the oak tree. 2:11 more
cirrus same way to W; 70°F in shade.
3:27 pm hazy cirrus overcast = 71°F. 4:44 -
starlings & H.S. feeding off & on mast of pine.
Spec. about 2:30 - 3:15 -
- 13 Apr. clear 8:46 am = 56°F and first
swallowtail butterfly about oak -
starlings & house sparrows now
in front yard in numbers. 11:04 am
clear, warming = 67°F. a rather hazy
cirrus W to S. 12:31 pm 72°F, but house
colder. cirrus clouds moving N off to
the western horizon. 6:48 almost a complete
high cirrus overcast.
- 14 Apr. fog at 8 am, especially heavy over hills
with breezes. 9 am scattered fog to W with
lots of cirrus. 11:33 75°F clear, some high
fog N few cirrus = 57°F, intermittent wind
noon - sun out = 58°F almost clear, but
patches of fog to N and E. 1:55 = 58°F,
rather breezy - clear & rather bright. chunks
of fog forming right in front of me to WSW
& sailing rapidly to N from SW in general
can't see any pile up yet. 4:46 almost completely
foggy - still rushing N. = 60°F in hazy sun.
getting windy.



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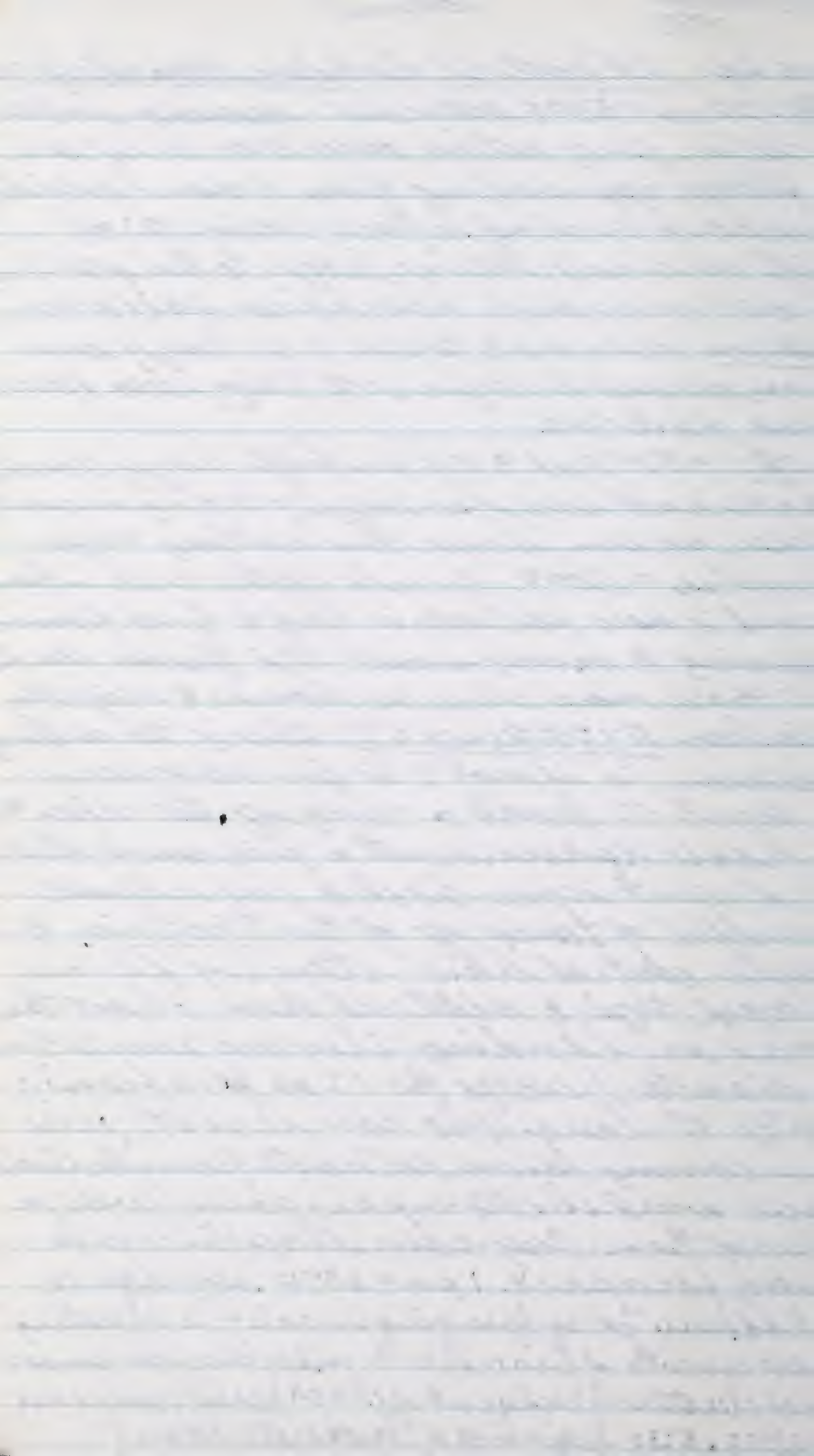
Journal

152

15 Apr., del Norte St., Berkeley, Alameda Co CA
8:28 am = 53°F overcast - cumulo nimbus
calm. Very active am. 10:01 high sun.
planes approaching from N-nw which
means 5 wind before rain. 12:45
high overcast, breeze, hazy to bright sun.
2:05 1 monarch over house fast & close
dawn over oak to SW. 3:27 hazy sun
& occasional breezes. 6:40 hazy sun & over
head, dark tow.

16 Apr. = 57°F at 8:53 am high hazy clouds,
occasional sun, also hazy. 10:05 am overcast
denser, no sun, same thin falling type
cumulus. = 60°F. Anne's apple tree in front
yard is now partially in leaf & first flowers
appearing & many small red flower buds.

11:45 am. more cumulus clouds & slightly
darker. EXPERIMENT This is the nesting
season, is it not? So far have seen
1 scrub J. break a twig off the cedar &
a house sparrow with a pigeon feather.
So I went up in back & cut a small
handful of twigs off of the Photinia &
some central bare stems of ferns
(sword type) & scattered them about the
food on landing. They are 2mm to 4mm
in diameter, (except the 1 \pm in fern fronds);
& 4" to 6" long. Who can resist. 12:30
cars coming down del Norte from "the circle"
have windshield wipers going (well, a
few of them). Any rain drops here are
very far apart. 1 pm = 63°F very diffuse
shadows. Fox sq. foraging in oak - is it eating
new growth of branches? under tree are small
leaf clusters newly cut off. 4:09 heavier overcast
- 60°F. 5:30 beginning of moderate rain!



Christman
1990

Journal

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16 Apr., Del Norte St., Berkeley, Alameda Co., CA
4 pm a typical song in backyard then
at Wilson Warbler at - ? 5:43 = 57°F
and rain - big old drops. Finches feeding!
5:56 = 57°F ± Rain =

17 Apr 8:15 pm. - 53°F overcast with clouds &
a few small holes of blue. The aggressive
Fox sq. has been getting thinner & mangier
& scratches frequently. Bare patches
about shoulders & flanks - tail ok.
He was in prime condition in Dec. ±
so winter is rough on him. 8:57 large
patches of blue to W., no sun - clouds to SW
& NW. 9:46 hazy sun no shadow. Cumulus
from S with frequent 'holes' - 2:33 pm
64°F, hazy - hazy cumuli, no shadows
feels cold! Mail arriving only a stellar ⁱⁿ cumulus

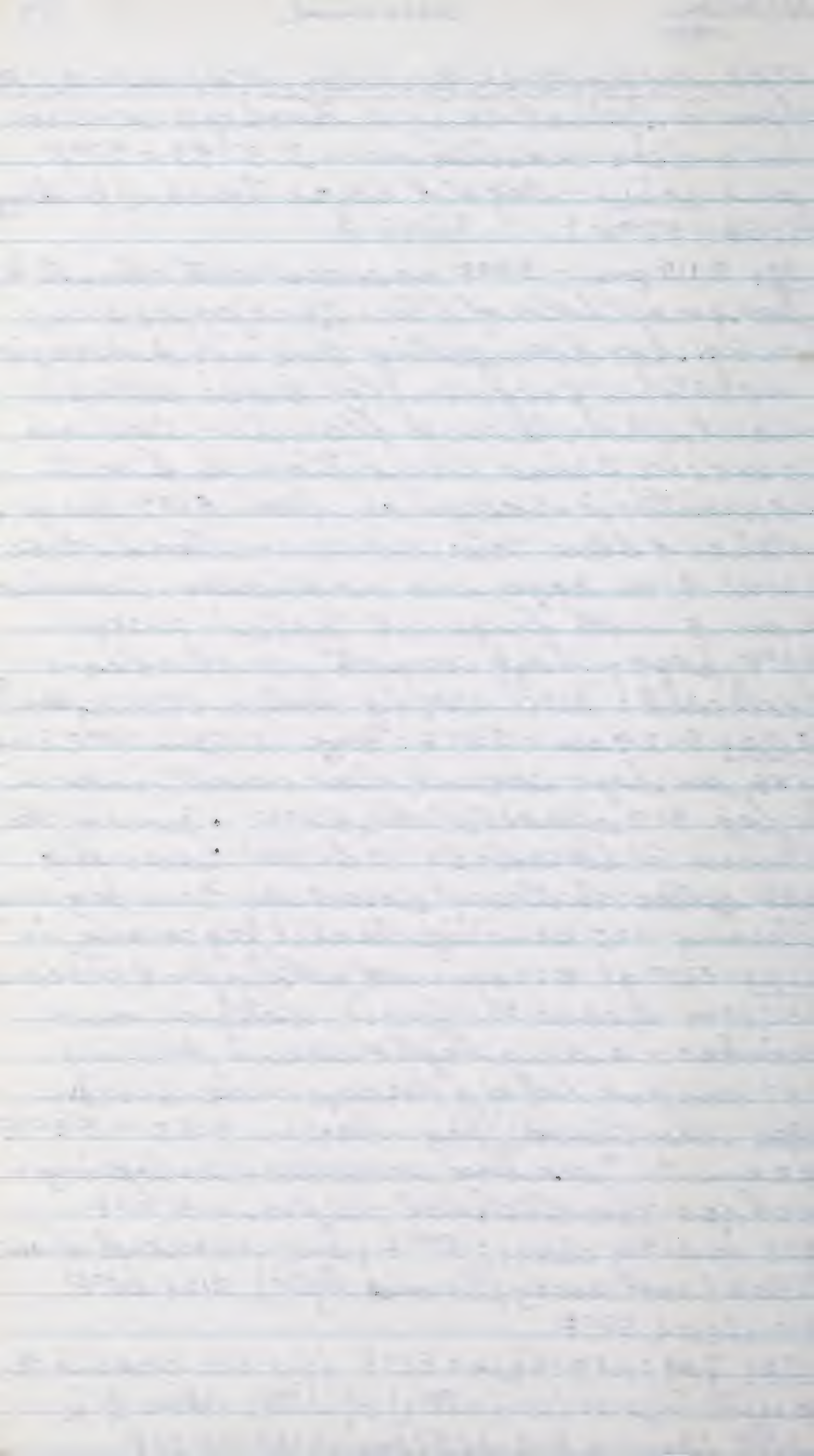
18 Apr 8:29 am = 51°F; Fog. 12:17 pm 59°F. Fog
2:36 pm hazy sun out, a few small holes in
the fog. 3:13 almost clear, 62°F. Most of the
Elmson El Dorado St 1/2 bl. SW have big
pale yellow clusters of samaras 4 pm fog slowly
returning. 4:10 some high clouds & fog coming in.

19 Apr. 50° at 8:11 am with patchy fog & cirrus.
1:50 pm Guess the fog is really cumulo-
nimbus - a heavy light rain is falling.
2:37 sun out, bit of a breeze more bluey.

20 Apr low clouds/fog - broken 8:53 = 54°F
11:28 am " " are now cumulus developing -

perhaps thunderhead the pm. = 57°F
12:13 mostly clear; 59°F; one monarch about
Pittos. (not many flowers left). 2:21 61°F
7:10 clear, 59°F

21 Apr fog; at 8:54 am = 52°F We are ending the
fourth year (winters) of little rain & a
fall coming dry season 12:50 = 57°F



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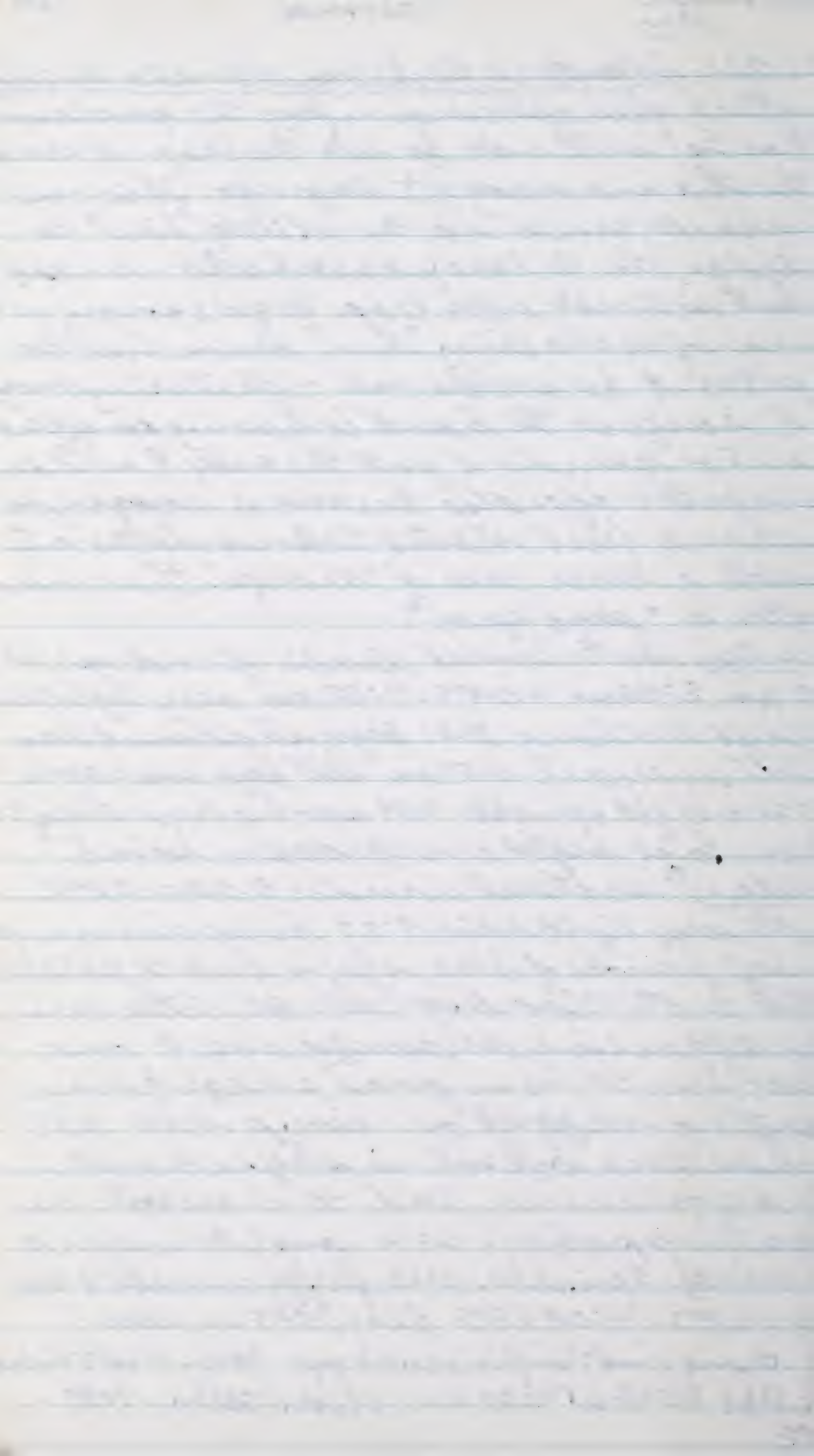
21 Apr., del Norte St., Berkeley, Alameda Co., Calif.
after 3 few openings in fog. The goddam
Fox Sq. will not go into the trap. & scard
the other one away 5 \pm days ago. This one
usually comes up the utility "line" to
ledge, etc. He have peanut butter - mess
but will not enter trap. He gets angry at
me after chasing "him" down line to
pittos. & he scalds me - chattering away
& I suspect the hawk is having an effect
on Fox Squirrels. I put the only ♀ in taken
a week + ago. also this one is ragged, so
when I first started taking notes a ♀
with a severe case of "mange". that was
after a "good year".

22 Apr. multi-leveled clouds. a few draps at
8 am. 8:46 am = 54°F. 9:58 am very light rain
didn't last long. 10:51 hazy shadows & sun
still overcast. 11:57 am still hazy sun = 59°F.
3:21 a light sprinkle. 3:39 saw big draps straight
down. Last night a respectable rain!

23 Apr. ↑ scattered clouds; 8:20 = 53°F.
8:55 very light rain. 9:27 brief shadows &
brief periods of blue sky in small patches
still 2 ♂ (?) (no big balls on litter now)
the aggressive screaming one & one
that use to be in good pelage & now
getting ragged on rump, but not
shoulders which is shiny & not
as aggressive. And to have both are
untrappable. 12:40 complete overcast
& windy. Sprinkles. 2:45 fluffy cumuli & blue
sky; 63°F. 4:04 95% clear, 78°F in sun.

6:11 strong wind; high cirrus, haze to W. = 66°F in sun

24 Apr 50°F at 9:20 am clear, calm 1:39 =
61°F.



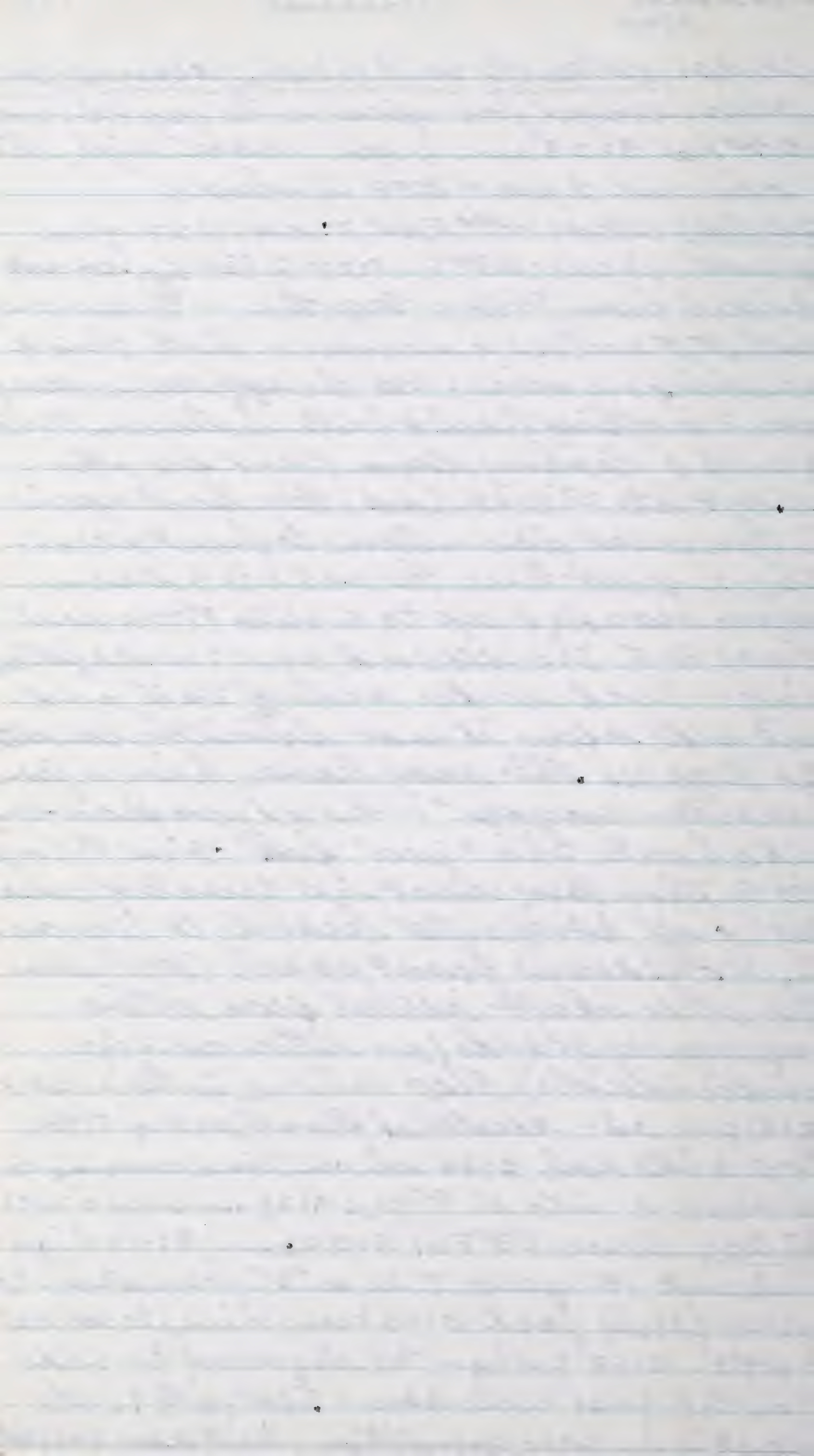
Christman
1990

Journal

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25 Apr, ad hante st, Berkeley, Alameda Co CA
clear except for a few wispy cirrus
54°F at 8:28 am. 11 am. more high, thin
cirrus. 2 pm = 72°F in shade

26 Apr clear 49°F at 7: am. 11:17 flew
small cirrus; 63°F. 1:27 2 Fox Sq. to oak
& back from Pittos together - these are
both ♂♂ unless a new one. Both thin &
mablgan wire. 1:33 the aggressive-mungy
one is walking back & forth between Pittos
& oak & looking down. Can't see other.
Went into Pittos & back, then back again.
& then went down stairs to front porch.
The 2 went thru the oak N to S down
main branch & up to S. into Pittos net
near to S. The second one: was follow-
ing - head under side of tail and
at side view it was definitely smaller.
So I guess this may have been a juv.
"maiden voyage" - the ad was showing
it about. The "juv." fed 3' in Pittos
to S. Then they went up trunk of cedar
40' & off horizontal branch to tree oak
L. Mousauer's front porch. Conclusion
the other adult haven't seen active
mammary glands (on either ad size
individuals). Also where is the nest?
2:31 pm ad - scratched flank out of Pittos
to S. & into oak. 2:33 ad. on line coming to
house & into N. Pittos. 4:33 in sun = 76°F
27 Apr clear, 53°F at 8:05 am. 8:43 high
about 15 geese? in a "V" formation to
NW, fairly fast. 10:43 more cirrus to SW-NW.
= 64°F 10:58 Fox Sq. - the shy one of the 2 ads
for the first time saw 1 Teal, a ♀?. Its
coat is in fair condition, but does scratch.



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1990

Journal

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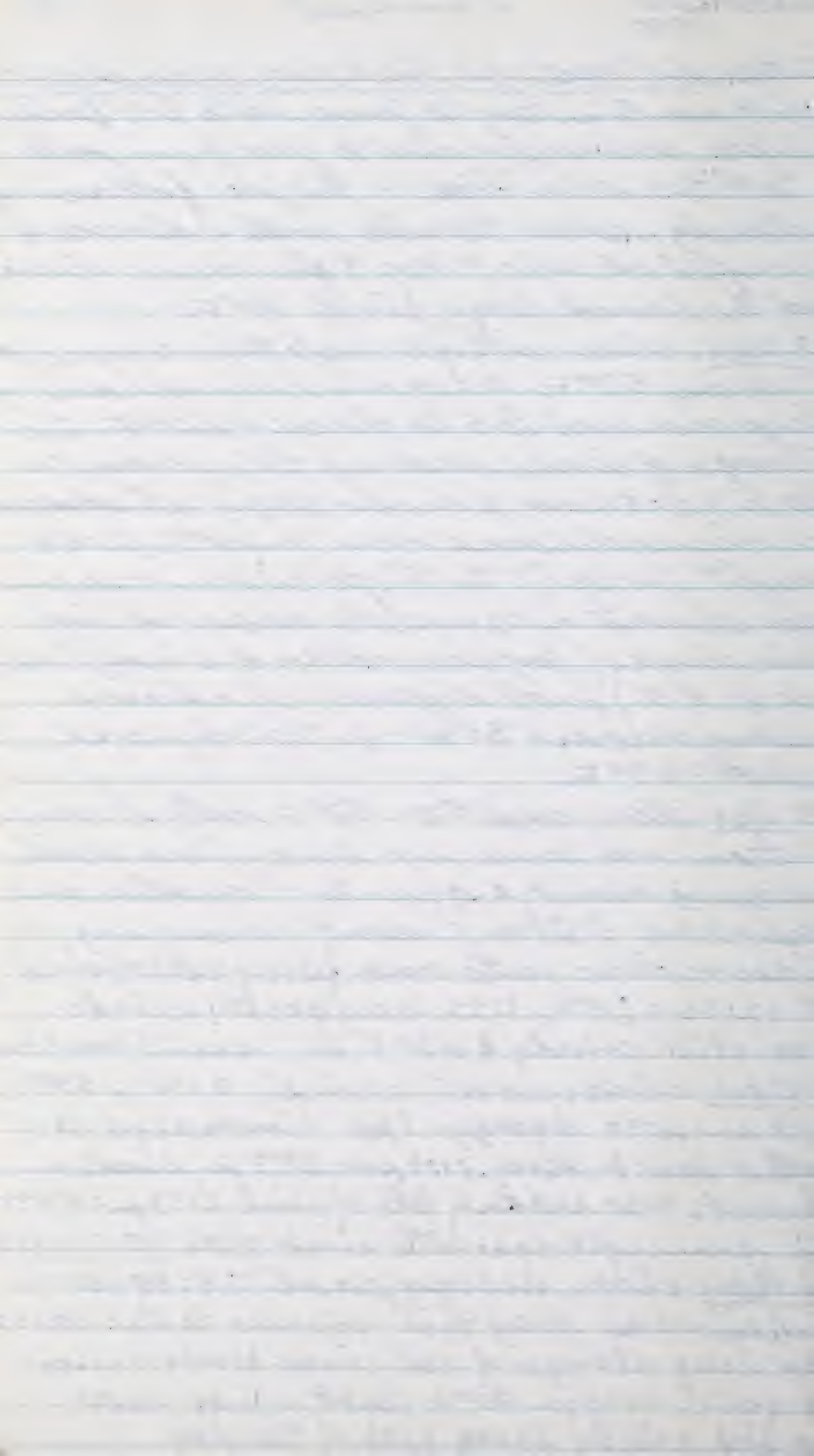
27 Apr, ~~del Norte St.~~ Berkeley, Alameda Co. CA
11:10 am. ♀ in try to jump onto D-4 feeder.
Then scroungy and ♂ juv. from oak
to Pittos. via line - the juv. following
closely, some trouble with balance &
jumped ab into Pittos. 3 few more cirrus
of the broad haze kind. 74°F.

28 Apr. clear with few high thin cirrus; at
9:14 am, 57°F. 10:14 am a broad band of
deep cirrus N to S to the W. = 60°F. The
strings of cirrus making this way. (W
to E.) 11:52 am periodic haze shadows
as cirrus above seen = 64°F. 12:59
caught Far Sq. (? the ♀); to tiller. 1:26 pm
now almost a complete cover of high
thin cirrus (fag over ocean & smag low,
to W & S.) with diffuse shadows.
heavy overcast 3:30 - 6. 7:23 almost
clear: 63°F.

29 Apr clear, cool 9:15 = 53°F with breezes.
9:37 am one came up line. Then made
running about & grunts - another one
was here! Then I went running
down line into oak. fair gusty wind
at 12:36 = 61°F, 1:22 very gusty winds.
3:20 still windy & 62°F in sun! cool day

30 Apr clear, cool, windy 8:14 = 55°F.
9:43 am 60°F breezy. 1 pm 1 meadow to N
rather low & slow. 1:14 pm 70°F in shade in
front. 4:30 suddenly lots of wind. 6:53 pm = 88°F
in sun. right now little wind. clear No clouds

1 May clear, breezy, cool - 9:38 = 65°F
when some new thin cirrus to NW. 10:52
now long strings of real cirrus. heavy cirrus
to far N. 2:40 pm 80°F. almost entirely clear.
no bird activity during heat of the day



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2 May, ~~Edharte St. Berkeley, Alameda Co~~
clear, 7:54 am = 54°F 9:35 am 62°F Very
little bird activity today. The aggressive
♂ Fox Sq. in 9:15. Haven't seen the
juv. Fox Sq. of late.

3 May thin fog, at 8 am = 53°F. 8:30 am
almost clear 3:09 pm 66°F — a cooler
day. 4 pm Fog all along ocean-hills, spilling
thru gaps & into S. Bay.

4 May clear at 6:30, but low cold fog
5 blocks to S & W. 7:58 am = 51°F. 4:15 pm
98°F in sun.

5 May clear at 7 am. Fog W & N from
7:30 to 8:30. 56°F at 8:56 am. 4:15 pm
clear, cirrus a fog to W. = 88°F in sun. 5:10 pm
= 71°F new after bits of fog off to W & forming
higher the next overhead. 7:29 = 57°F, bands
of cirrus radiating from NW. Some minor
fog.

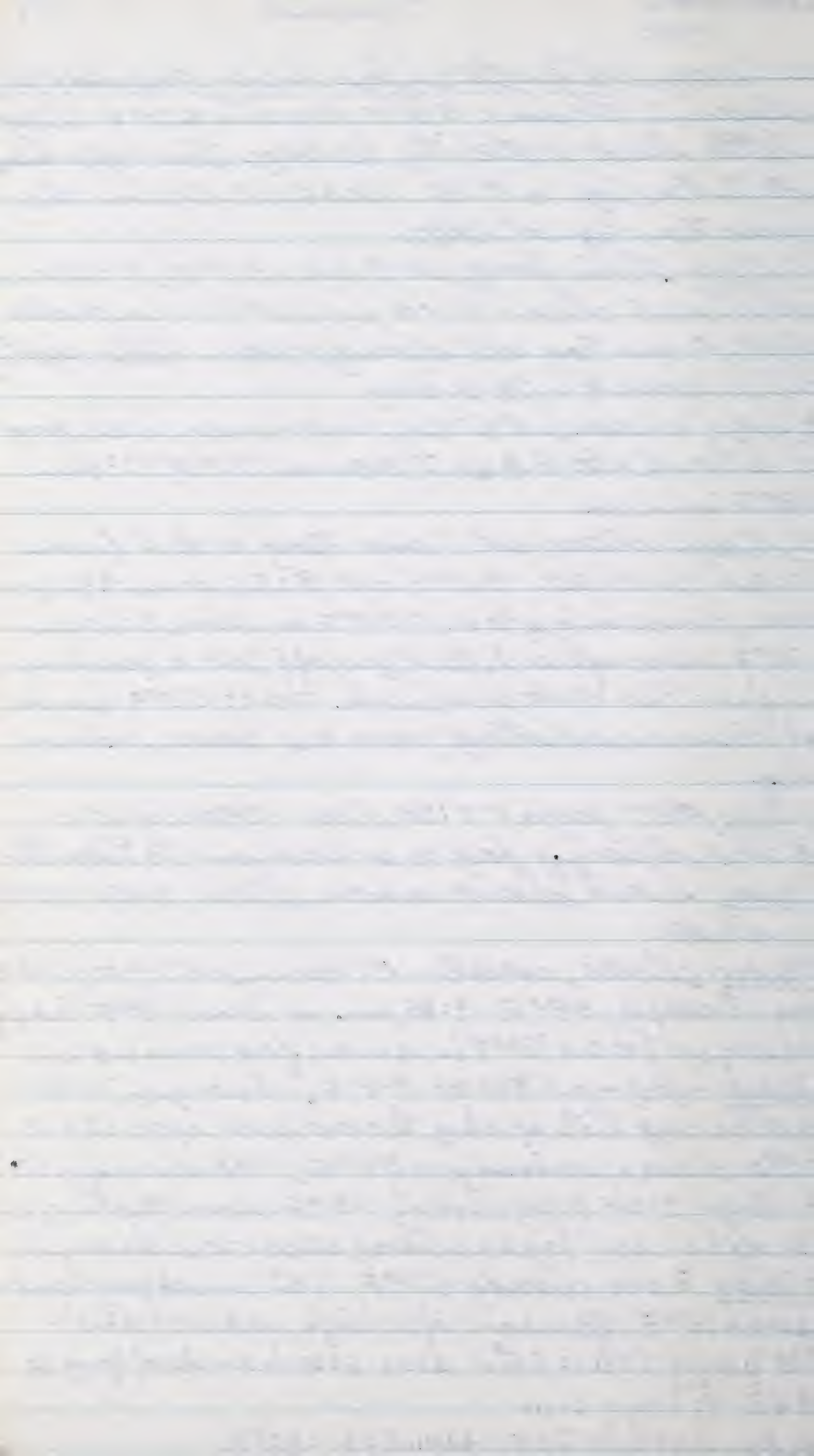
6 May 1990 fog at 7:30 clear 95% by 10 =
57°F, breezy fog to W horizon. To Palo Alto
7 May has about noon clear 1:45 = 76°F
in shade.

8 May clear, cool — 11:40 am = 57°F; 1:55
pm breezy, 59°F. 4:35 pm in sun 68°F hazy
breezy. 7:02 = 70°F in sun, fog coming in.

9 May - fog - at 8:04 = 54°F. breezy. 11:20
still breeze bits of sky, tho no sun yet. 12:18
80% clear, windy, = 59°F. 1:43 windy, 90
% fog. 2:24 very windy 25% clear tho hazy.
3:31 off & on sun, fog overhead, clear to W. breezy.

10 May 8 am cloudy 51°F 11:52 mixed fog clouds
& sun = 60°F afternoon a few high 'mares tails' -
4:30 hazy clear = 65 in sun. 6:20 bands of fog to
N & NE, 1/3 hazy sun.

11 May broken fog - sun. 8:13 = 52°F,



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12 May, del Norte St., Berkeley, Alameda Co. CA
7:30 am 49°F scattered low clouds
at 10:11 = 55°F. 11:25 mainly clear 57°F with
some wind 3 pm = 64°F in sun; now
high filmy cirrus & mallee's tails.

13 May 7:30 am 48°F clear; 9:10 = 53°F high
cirrus. 2:54 pm hazy cirrus - 66°F in sun

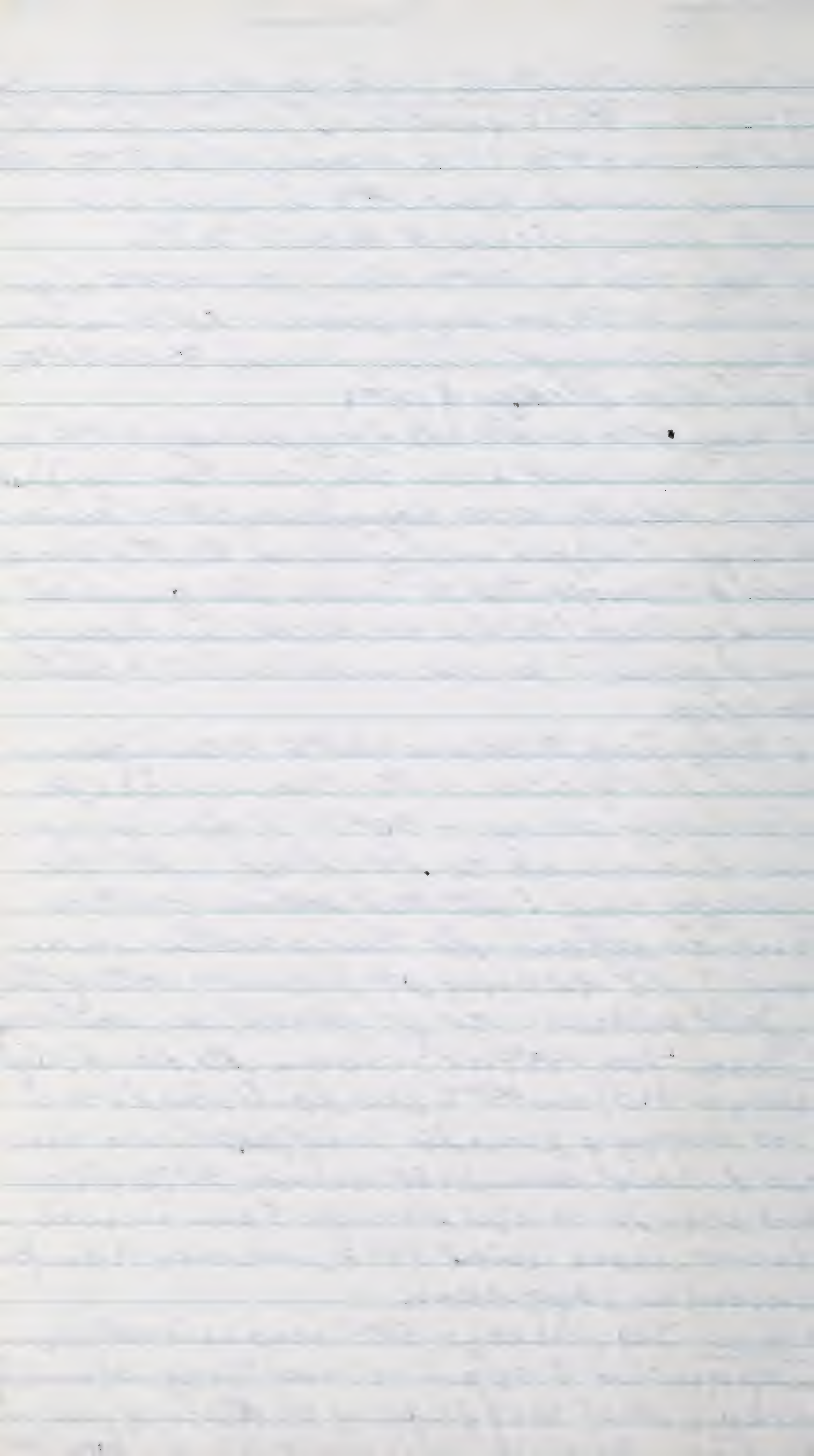
14 May a few high cirrus, windy 8:18 = 51°F.
3 pm clear breezy & 65°F

15 May 10% small bits of fog, windy, 48°F, feels
cold. Have not seen the juv. Fox Sq. yet
the 2 adults. 10:28 hazy clear, 55°F, quiet
breeze. Trapped and weighed the ♂ of local
pair & transported to Tilden. This guy had
good pelage (the ♀ is the scruffy mangy
one I guess) - he was making hell & chatter
going up.

16 May Fog, 8:30 am = 52°F 9:30 diffuse
sun, bit of blue. 11:53 clear except for
a few hazy cirrus - 56°F a fox sq. up
line from oak to landing, not the
mangy one! Its tail seems not as
long as others. Is this another new
one? It seems at times all of the
right places - as if familiar with scene

17 May Fog, 48°F at 7:30 am its dark! Night
breeze. 9:01 am 49°F, low dark clouds to N.
10:45 breezy & periodic brief patches of blue
to W & high sun. 11:00 windy, 50% clear
low clouds to N. sunny. 3 pm increasing
cirrus, more wind 59°F. no sun. 4 pm fog
coming in, hazy sun.

18 May Fog, breeze, 51°F occasional strong
gusts of wind. 3:06 pm, a new Fox Sq. extremely
pecky, lots of tail flipping & chattering from
the line, smallish. This must be the local juv.



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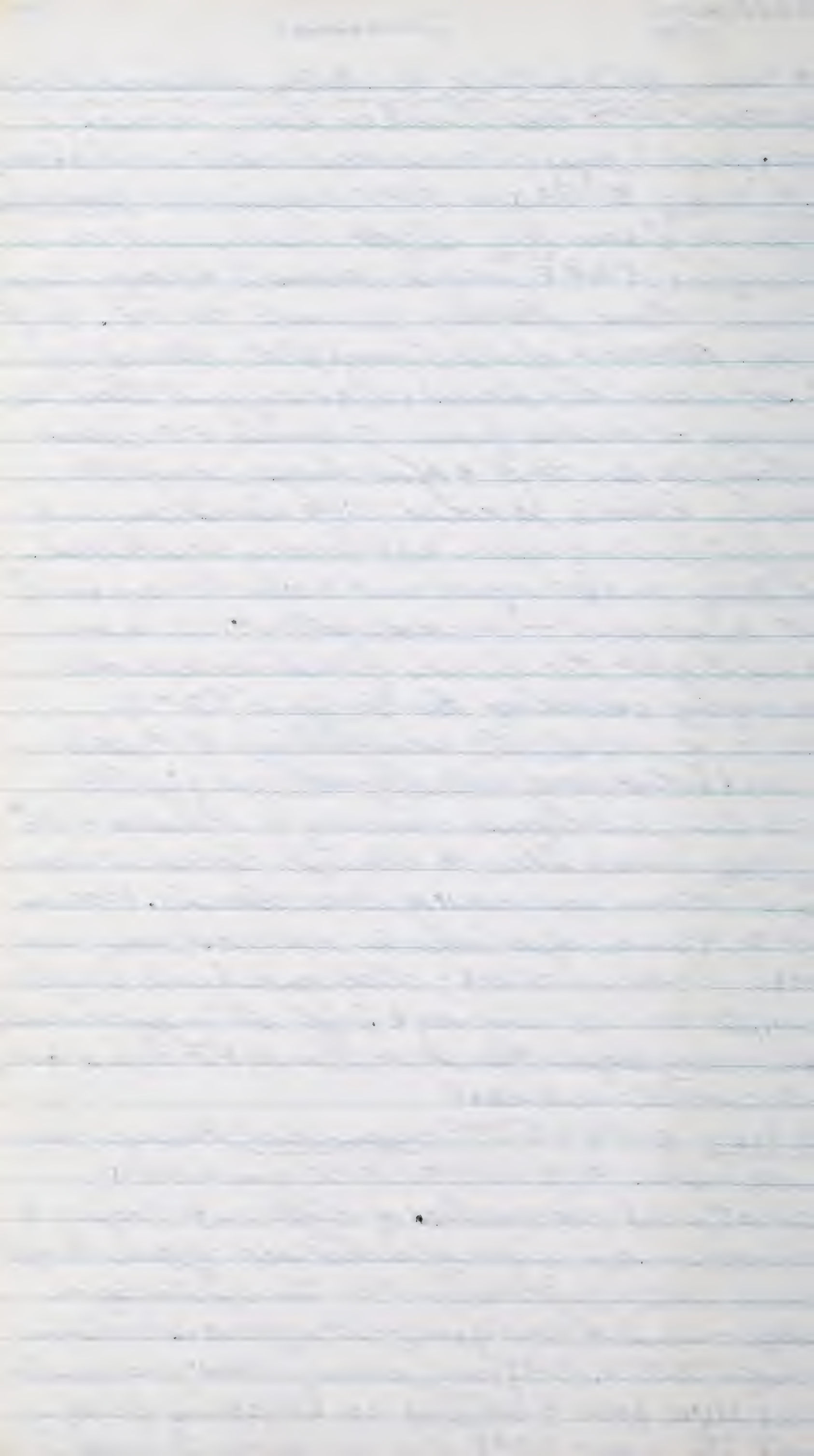
18 May, del Norte St., Berkeley, Alameda Co, CA
3:08 pm = 64° F was broken sun, now is
general hazy cirrus overcast no shadows

19 May 8:48 am 51° F variable cumulus
clouds from W. slight breeze. 11:06 am
breezier, 54° F, more cumuli & hazy cirrus
above them, darker cumuli to NE. bright
sun. Moon = almost complete cloud cover
& no sun/shadows, breezy. I think the
wind is more from S now. 3:11 clouds
getting darker to N & a few drops. complete c.
cover. Rain is forecast. 5:49 cloud cover &
light, but no sun. Not heavy overhead.

20 May wake up about 5 am to rain!
at heaviest - moderate. 9:22 now
new light the birds feeding are all
soggy including the Fox Sq. = 52° F.

12:10 a moderate rain falling. 3:14 dark
cloud but no rain, actually rather bright.
6:26 sun, but clouds moving in. Radio = $1/4^{\circ}$
21 May same blue & clouds to SW at 6 am,
by 6:55 am overcast of low clouds. 8:04 am
 54° F. 9:26 am a few holes in overcast, hazy sun
 56° F. 11:54 am = 63° F; clear overhead, bright
sun, to SW - NW cirrus & high stringy cumuli.
4 pm many layers & kinds of clouds & cloud cover.
6:39 complete overcast.

22 May 6:49 = 57° F overcast, dark from
? sprinkles. 8:13 = 61° F. 10:27 am = 64° F,
scattered cumulus of different layers &
shapes - no sign of build-up types. bright
sun intermittently. 10:57 The ad. Fox Sq on
ledge - end of tail gone - it appears to have
large testes. 11:47 am Cumuli now are develop-
ping more form & building up. Becoming breezy
and it's now 70° F. are we going to have



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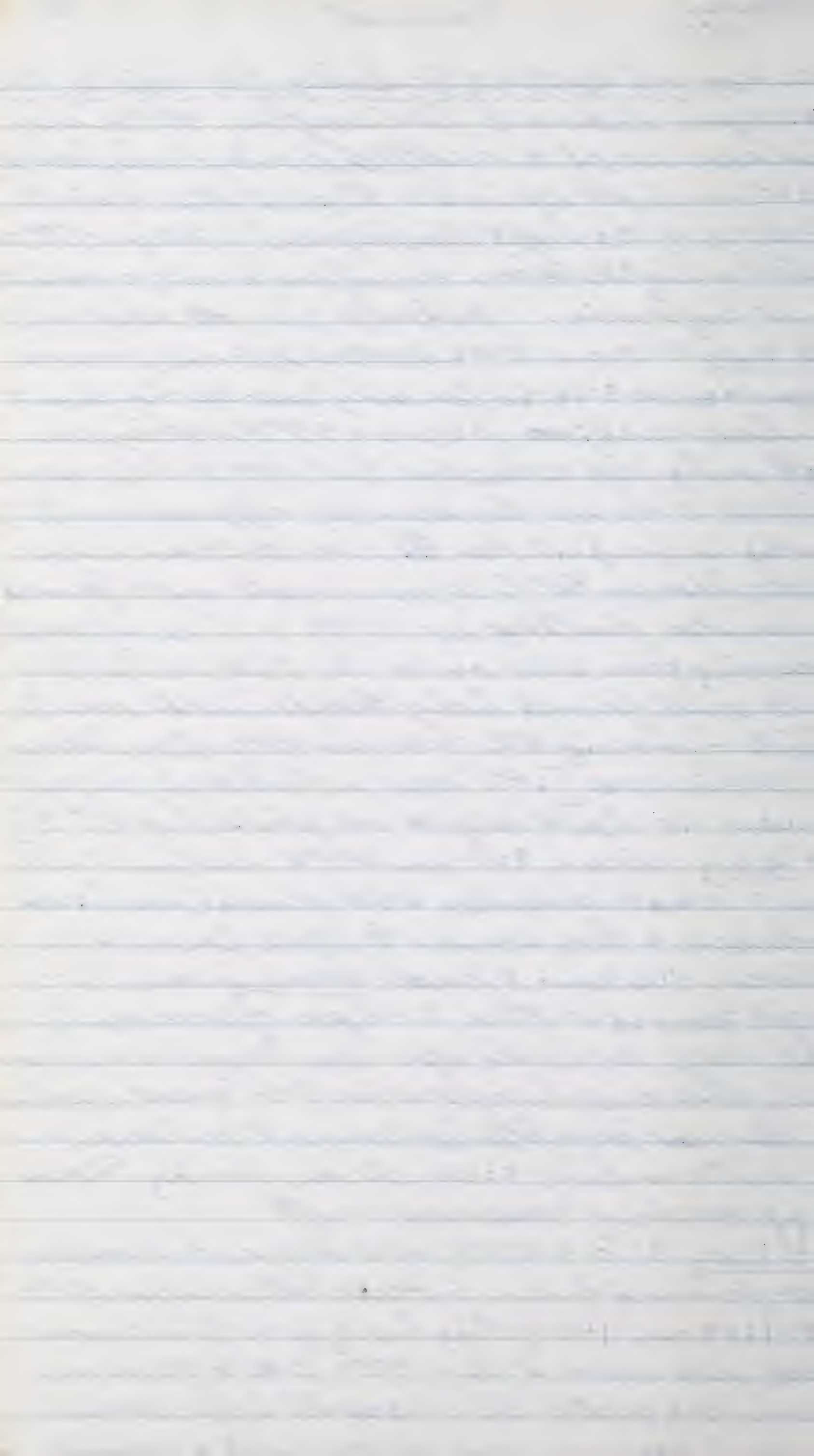
160

22 May, del Norte St, Berkeley, Alameda Co, CA
3:55 pm drove to Kensington 95% sky
is overcast & mottled dark, dark, breeze
4:07 a light sprinkle. Stopped after 5 minutes
= 65°F. 4:19 a light downpour! 6:53 pm = 59°F
still a light rain. Everything is wet, a consist
ant light rain. Moderate rain all most night

23 May 8:13 am = 51°F scattered clouds, cumulus
esp. to west. 8:58 so far only juv. Fox Sq. about
on line - aab; ~~at~~ 10:11 am = 55°F mainly clear
with only high cumulus that look like low
cirrus. 10:42 am the scruffy-aggressive (♀?)
Fox Sq. in far first this ~~at~~ a.m. 10:55 am almost
clear; breezy. 56°F. A few small well formed
cumulus building up. 11:33 a line of cumuli
forming from WNW on to NE. They are building
into well formed baby thunderheads over the
hills - moving NE. 3:35 pm 98% clear, breezy
& 75°F in sun. [.42" rain in Oakland, we get
more so last night we picked up 1/2" ±]

24 May clear, 8:01 am 48°F calm. 8:24
am, 1 small cumulus WNW almost overhead
whispy & thin, seems to have formed in
place. 9:36 am 3 small forming cumuli -
high toward W & NW 2:05 pm a few cumuli
over hills no build ups. Now hazy cirrus from
SW, otherwise bright sun. 3:34 greater portion
of sky now hazy blanket cirrus + 1/2 clouds. -
is a storm due? 5:54 clear windy. Storm
approaching tomorrow night

25 May 8:10 = 50°F a few cirrus & cumulus
ill-formed from S over hills. Calm. 57°F
at 11:38 am. 11:55 getting breezy. A thin cirrus
hazy over most of sky = 58°F 12:45 to SW some
cumulus of coastal hills; W horizontal dark clouds.
General hazy overcast at 1:05 = 60°F & W clouds



Christmas
1990

Journal

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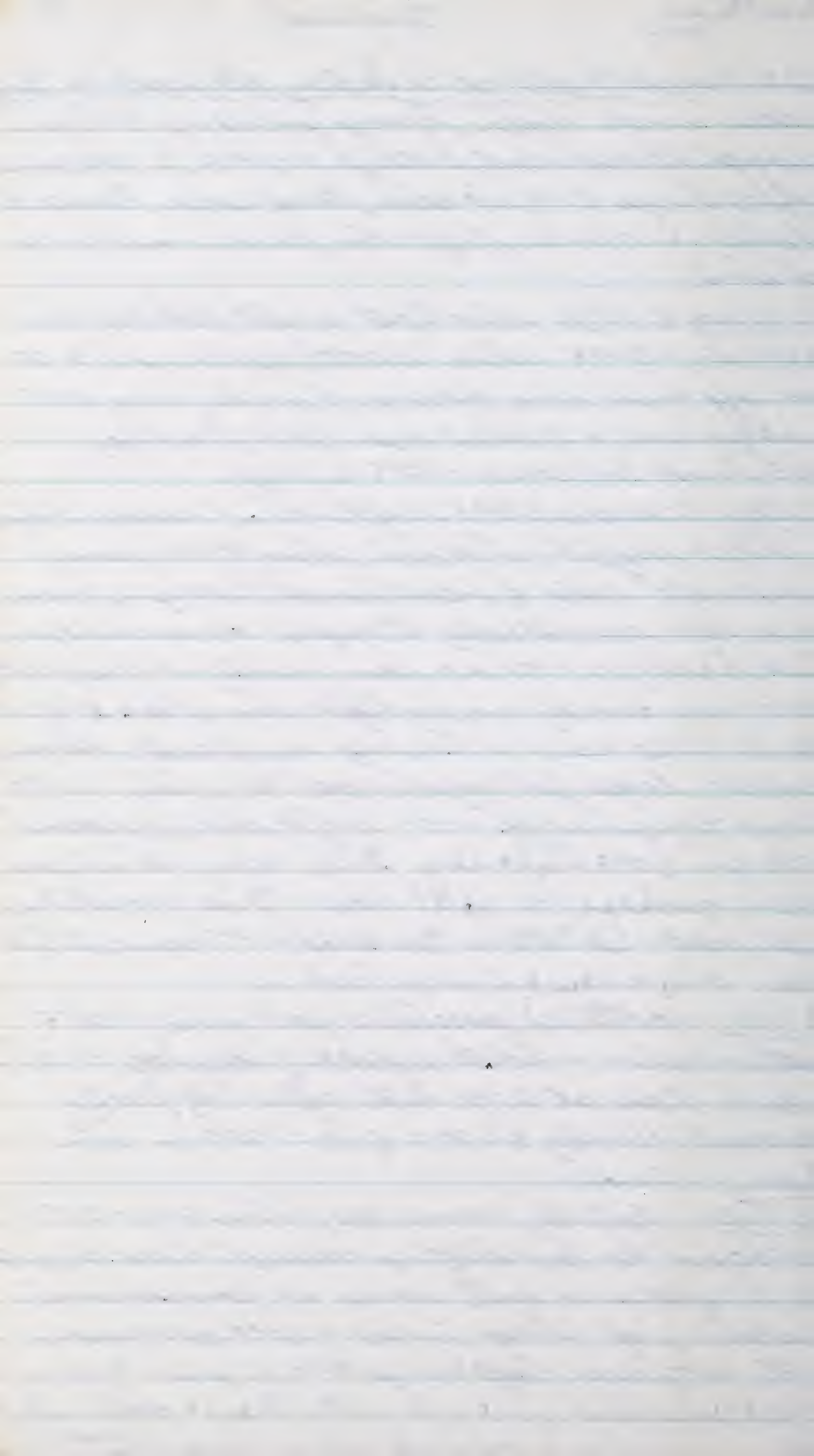
25 May, El Norte St. Berkeley, Alameda Co. Cal.
cloud much closer, breeze picked up. 3:32 pm
complete overcast, breeze = 64°F. 5:24 pm
a few drops 6:15 no rain, cloud cover lower &
darker. 6:35 pm very light rain, occasional gusts
of wind.

26 May a little rain last night not much.
8:54 am = 54°F calm scattered clouds. 3:35
pm off & on sun & misc clouds; now 70°F
in heavy sun, a varied overcast, breezy.
6:05 clouds bit heavier = 62°F breezy.

27 May 8:20 am 55°F soft rain (since before
11 last night) almost calm. 8:49 now
moderate rain & occasional breezes. 10 am
rain has essentially stopped. overcast, a
bit breezy. 11:33 no rain windy at times = 61°F
12:07 pm windy, a very light rain clouds fast
to N. 12:30 now a driving moderate rain.
small drops falling almost heavily. 12:57
rain tapered off. 1:57 light shower again.
2:23 pm 60°F light rain these May rains have
been perhaps 1/2 until now. This must be
that much. So late in the season. 4:36 pm still lite
rain only a dove & a hungry finch in.

28 May scattered cumulus, part sun, = 56°F
rather calm - last night & yesterday 3/4 to 1".
mainly clear at 2:50 with a few big fluffy
cumuli. Windy & 62°F 6:10 - 72°F in sun
clear windy.

29 May cloudy, cumulus, calm 8:41 = 56°F.
11:50 am the low drifting cumuli have cleared
to bright sun with some ill formed cumuli
& some high filmy cirrus = 60°F at noon.
3:55 95% clear, slight breeze, 81°F in sun. 4:09
what looks like first oak with about oak. only 1
6:46 pm new clouds to SW & W rather heavy, clear ^{over-}head.



Christman
1990

Egg experiment

29 May, ~~del Norte St., Berkeley, Alameda Co., CA~~
Same time back I found some hollow
plastic eggs in a "Novelty Store" in Palo
alto - $1\frac{3}{8}$ " x 1". I want to try it on
the jays! Now not wanting them to fly
off with it I made a hole & filled it
with lead shot, a la Mark Twain so
it weights 54.3 grams. It's pigeon
size also, so what will be the reaction
of doves & band-tails!?

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30 May, del Norte St., Berkeley, Alameda Co., Calif
rain started lightly at 2:33 am. continued
stopped about 9:30. overcast, slight breeze
56°F. 11:24 clouds breaking up, light wind.
12:15 complete overcast, cold, windy. 2:36
cumulus soaring through to N. a few very
light sprinkles 4:05 shower & breeze - rather
stiff.

1 June 7:15 pm a few filmy & very ~~discrete~~ cirrus.
main day, wind easterly, Oab moths 3+.

2 June 4:56 = 93°F in sun, clear & calm.
5:58 = 6+ oab moths!

3 June 1:25 pm clear, but now some filmy
cirrus off to W; 67°F faint in shade - no
oab moths yet. 5:52 whiffs of fog to N & N

4 June clear, calm warm all day -
6:34 oab moths 6+; 90°F in sun.

5 June clear calm 8:31 am = 56°F
10:33 am no oab. moths very little bird
activity

6 June fog, 59°F at 8:11! 11:43 pm still fog
62°F. 12:45 a few holes in fog which is moving
N = 67°F. 1:33 pm 67°F fog few holes first oab
moth of the day. 3:03 broken fog, predict sun
72°F. 3:07 1 oab moth.

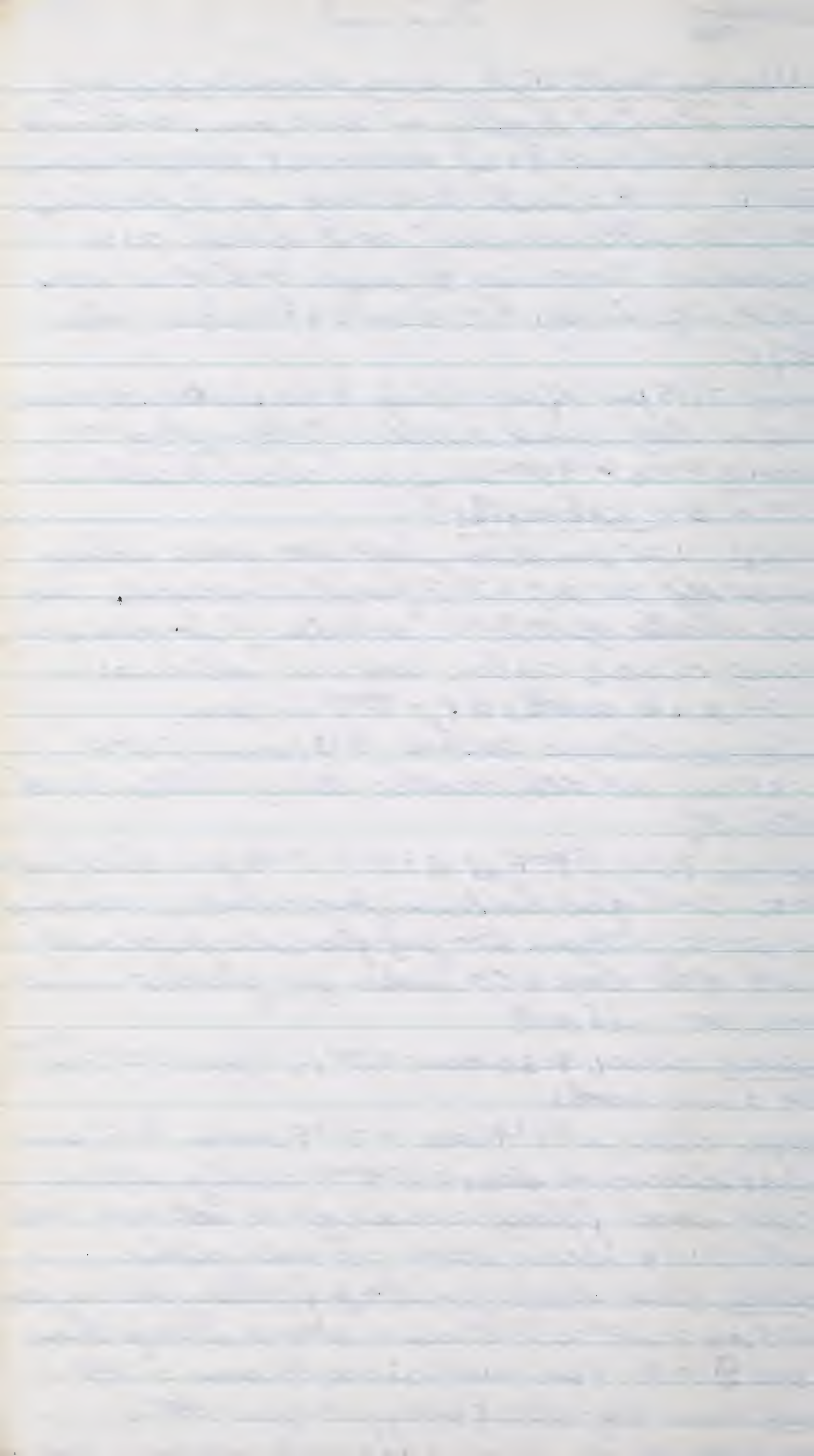
7 June clear, 8:30 am = 57°F, 4 pm 100°F in ^{sun}.
4:24 2 oab moths.

8 June clear, at 9:41 am = 71°F, calm. 3:57 pm
a hot day - in sun = 109°F! Calm, clear
except some filmy cirrus off to ^{S.} 4:04 1 oab
moth. 7:09 clear, 102°F - 10 oab moths.

9 June clear except for long feathery cirrus, at
10:08 am = 65°F. 11:57 am = 70°F & still feathery
cirrus S & N. 3 pm more cirrus, 2/3 cover = 74°F

10 June 6 am fog; clear & breezy at 9 am = 58°F.

3:50 = 90°F at side, clear; 2 oab moths at same time



11 June, ~~del Norte St, Berkeley, Alameda Co, CA~~
8:40 am: 55°F, clear, calm. 3:58 pm 93° in
sun; but not a hot day! clear. Aha, 4:15 3 orb
snails at one time, SOB! 10:58 am back from
Tilden where I delivered a Fox Sq. - could
not tell which one.

13 June clear calm 54°F at 8:40 am. 9:44 am
the juv. Fox Sq. in to feed on pigeon food -
so yesterday I caught 1 of the adults.

14 June 8:11 am: 56°F scattered low clouds going
N. 11:26 am the big ♂ Fox Sq. in briefly - has
been clear since 10 am - 1:22 pm breezy &
low clouds. 6:40 pm low clouds roaring back,
same breeze, 69°F in sun.

15 June clouds the lightest of rain! a trace
fell last night (2 am. +) wet deck, dry side-
walks at 8:21 am = 53°F same intermittent breeze.
10:31 am still overcast, light breeze, no drizzle =
56°F. a few minutes of sun at 4 pm. rest is over-
cast & breezy. 6:53 = 56°F. feels cold.

16 June general overcast, deck, etc wet. at
9:09 am = 53°F

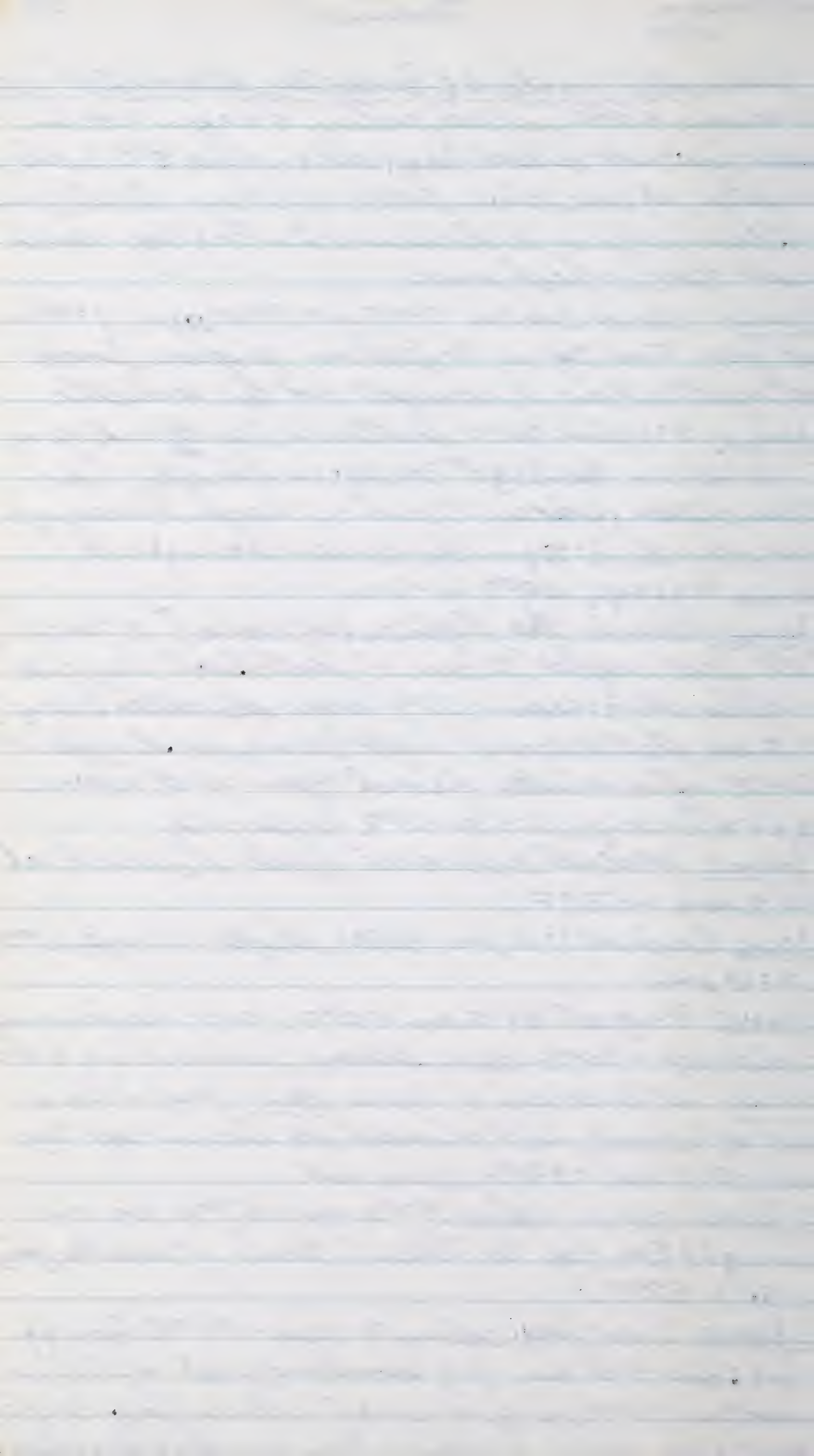
17 June back at 1:12 pm clear, slight breeze, 61°F
at 2:16 pm

18 June Fog, at 8:15 am 52°F. 12:40 beginning
to clear up - 50% clear, breeze; some sun, 63°F

19 June at 6:30 am a rare low fog (below
level of house), but almost all burnt off by
8 am; 8:15 am = 54°F. Sun out.

20 June clear, calm. 9:31 am = 67°F. Now -
caught Fox Sq. to Tilden (think it was the juv.).
2:36 = 82°F.

21 June low fog, calm, 8:11 am = 57°F. Fox Sq.
in at 7 am. 8:30 am fog swirling past upstairs
window. 11:45 am a few small holes in fog; bright
days - sun, some breezes. Seen no orb snails lately



Christman
1990

Journal

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21 June, del Norte St., Beckley, Alameda Co., CA
yesterday noticed several branches of
maple are putting out new growth -
a pinkish tan, on E. side & 25' up, 2:14
p.m. spotty fog & sun, breezy. After 3 all fog
7:36 = 57°F heavy breeze. little bird activity
never did really clear up. Banded 2 doves

22 June Fog again 7:54 am = 56°F. Noon
= 64°F patches of blue - still fog, high cirrus
& breezy. 3 ± clear warm & high cirrus
clouds to N. 7:12 pm = 78°F in sun.

23 June Fog, 9:20 am = 57°F. 12:11 sun out,
still fog tho bright = 66°F. 1:30 breezy with
bright sun & nearly clear; whips of fog to N.
6:52 pm = 79°F in sun; clear except few very small
cirrus, a bit of a breeze, fog off to N.W.

24 June 10:51 am = 57°F fog, calm.

25 June Fog, 9:26 am 59°F clear by 11 am
7:29 pm 81°F in sun; sparsely clear.

26 June Fog till 8 am clear by 9 am (= 56°F)
calm.

27 June clear, 11:am = 64°F. Clear & warm all day

28 June patchy fog at 7, clear by 8:15 am, a
bit of E. wind.

29 June Fog, at 9:34 am 57°F. W. breezes.

Pittosporum = clumps of green fruit, a few
old orange ones & 4 small clumps of white
flowers. 12:25 pm first brief bit of sun -
my view is still overcast. 1 pm 95% clear
except far to S & W. = 66°F

30 June clear; 10:14 am = 62°F. 4:12 = 105°F

in sun, clear except small cumuli to S; for.

1 July fog breaking up by 7:40 am & retreating W
by 9:30. nice fluffy small cumuli to SE to
SW. 58°F at 9:39 1 pm more, larger & denser
cumuli overhead & to S where also overcast.

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Journal

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1 July del Norte St., Berkeley, Alameda Co., Calif.

3:25 pm narrow long heavy streamers of cumulus from SW, slight breeze, 72°F when seen behind clouds. It looks & feels like the approaching storms in Montana. 6:22 55% cloud cover, clear far to WNW. res getting darker, heavier clouds

2 July clear, except for 10% cumulus from SW. at 8:15 am = 57°F.

3 July clear 8:12 am = 59°F to P.A. moonish

4 July " 4 pm = 91°F in sun.

5 July fog, breaking up a bit at 8 am = 61°F.

9 am 50% clear, calm = 62°F; 11:10 am = 67°F clear except bank of low clouds W. of coastal hills. 4:24 pm = 92°F in sun, sunny, some thick cirrus or thin wispy cumulus from SW 1/4th cover.

6 July fog till 8:15 & by 8:50 am only a few wisps of fog = 60°F. 4:42 pm = 102°F in sun. clear, a quiet day. little bird activity.

~~del~~ 7 July clear 83°F, sun at 3:28 pm.

8 July fog cleared by 10 past 1/2 + by 3:50 pm

9 July fog, 9:36 am = 63°F. NW at 9:49 am still 90% overcast.

10 July fog, beginning to break up at 8:15 am = 57°F. at 7 pm well formed small fluffy cumuli overhead from E in a long line. am = foggy

11 July fog over bay, clear overhead. 57°F at 8 am. with streamers of small cumuli SW to N. 10 am heavier cloud cover to S with, it appears, thunderheads building up. Seems a high pressure center in Pacific is catching up tropical moist air to S. 12:30 pm varying cumulus 50% + cover; brief show of huge rain drops. 80% clear at 3:10 pm at 75°F in sun.

12 July 90% cumulus cloud cover 8 am = 60°F

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12 July, del Norte St. Berkeley, Alameda Co. Ca.
11 am = 67°F 90% clear.

13 July a Friday; fog till 7:30 am then
same old cumulus from SW 8:28 am = 65°F
9:30 am still same lingering fog to SW to NE
lawish; sunny here = 61°F. 3:23 pm all clear
& 73°F in sun.

14 July Fog, at 9:02 am = 58°F. 90% + fog but
intermittent sun at noon ±. breezy. 1:44
pm 1/2 fog to N. breeze & 64°F. Fog in after 3—
7 pm heavy fog, not law = 61°F. bit of W breeze.

15 July fog; at 9:46 am = 59°F. 10:52 after small
hales in fog & periodic dull sun = 63°F.

16 July 8 am = 57°F Fog. 11 am fog somewhat
dispersed to misc. cumulus & some are
beginning to build up. 1 pm a strange mix
of high haze cirrus, some cumuli & fog
coming back in from S! a stiff breeze. 4:15
less fog & more cumulo-nimbus, darker, very
overcast to S. Looks like imminent rain. 7:30 pm
bright sun with 40% high cumuli = 66°F

17 July fog, 8:25 am 60°F. 9:15 am 20% blue
rather calm. fog breaking up. 11 am clear &
= 65°F. 2 pm = 71°F with several cirrus clouds.

18 July 8:25 am fog under (typical) cumuli
at 61°F. 8:57 am a mad race thru air & 2
Fox sq. appeared one with a wild leap to line
& ran up line & leaped into Pittos. Other
(chaser) retreated back into air. One did
lots of chattering. Fox weeks now only 1.
Fox sq. absent — this is first indication of a 2nd.
9:55 am, now brighter, tiny amount of blue but
cumulo-nimbus overcast.

19 July fog, 8:16 am = 59°F. 9 am first sun out &
breaks in fog. 11 am fog is back, = 65°F. clear by
late afternoon. not a warm day

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20 July, del Norte St., Berkeley, Alameda Co, California
fog to 9:49 am = 64°F when some diffuse
sun out. 11:25 am 50-50 fog & blue, calm
& 61°F. 5 pm fog coming in. 7:10 = 64°F, Fog

21 July fog 10 am = 63°F.

22 July fog to 11 & hard by 4 -

23 July fog, 9:30 am = 54°F. 3:31 pm = 78° in
sun. has been clear - now a bank of fog
from S & W.

24 July fog to 8:30 then 1/2 blue = 57°F.
10:35 am clear, breezy & 59°F.

25 July fog, 60°F at 8:45 am a little breeze
fog till 11. cool day

26 July fog, 8:25 = 59°F 4 pm clear = 79°F
6 pm fog - 64°F fog broke 10:30 am, but
scattered fog to 3 then clear calm & over 80°F
fog in before 6. 7:20 = 61°F

30 July fog 8:18 am = 54°F. 11:20 am sun
out & hazy, still fog overcast in my view.
clear noon - 4. 6:30 : 7 dunes, most molting
2 terns, of all flocks later J.

31 July fog. Landing wet from a drizzle;
9 am = 55°F. 2:15 pm diffuse light, still over-
cast & 64°F.

1 Aug fog; 1:28 no sun thus far = 63°F.

2 Aug fog till noon, cool, 1:13 1/4 fog bright
sun & 65°F.

3 Aug 11:25 am fog again = 61°F slight breeze.

1/3 blue at pm, breezy. Scattered clouds all pm
7:37 pm 2/3 fog, bright sun = 64°F calm. fine day.

5 Aug fog, pretty clear by 9 am clear, warm
during day. 8 pm clear = 65°F; 1 cirrus to NW.

6 Aug clear, except for growing cumulus coalescing
esp. S & W. 3:30 pm increasing clouds 70°F getting
darker.

7 Aug. fog S - NW plus scattered cumulus ^{com} 8:35 60°F

7 Aug, del Norte St., Berkeley, Alameda Co., Calif.
9:55 am dark & drizzle, breezy. #2 Fox
sq. on clearing big chase ahead &
that down line into Pittos. 12:35 pm
pretty clear only a few small cumulus. 65°F.

8 Aug scattered cumulus 50% ±; 8:30 am = 64°F
by 11 am 95% clear; 71°F. 3 pm clear hot 80 +
4:20 fog in, in patches thence head to SE.

9 Aug heavy cumulus at 7:30 am. 9:24 grad-
ually clearing. by 11 am = 65°F. 3:17 pm over-
cast (? fog?) = 70°F

10 Aug fog, rather lace, clear by 9:45 = 62°F
fog back by 6 pm hot about day. 7:33 pm a
fine drizzle falling. = 63°F. heavy fog

11 Aug fog clearing by 8:30 am = 58°F. 10:30 am
back to complete fog. 11 am. fog opened, now
sun with wispy cirrus.

12 Aug fog to 11:30 ± am breezy.

14 Aug fog, highly wavy for 1 hr 11-12; then solid -
63°F. 3:10 pm breezy; fog lifted a bit to reveal
small cumulus; = 64°F no sun. 7:30 pm cumulus
c. sunny 64°F.

15 Aug mix of fog (about hills) and clear - SW-NW
3:25 = 57°F

16 Aug BLC up

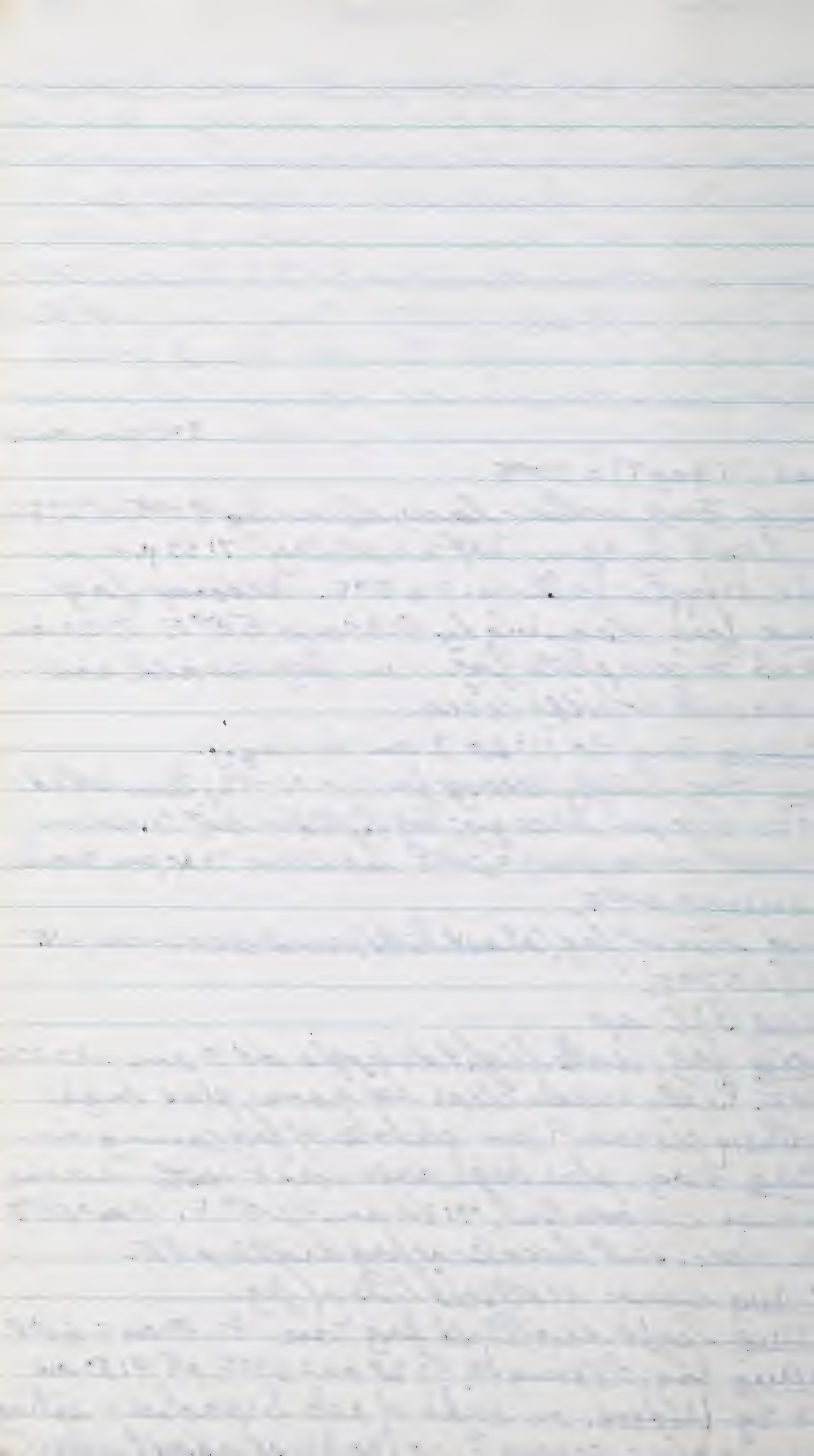
17 Aug fog, with light drizzle at 8 am. 10:08
65°F. Pretty much clear by noon, plus high
feathery cirrus. 4 pm chunks of fog coming in.

18 Aug fog, plus high over cast with same
lower cumulus, 9:30 am = 64°F. 11 am = 65°F
1/2 clear, but chunks of fog drifting NE.

19 Aug minor scattered bits of fog.

22 Aug light scattered fog 7 am + 9:am = 61°F

23 Aug fog, clearing by 9:30 am = 62°F. at 9:30 am
Fox sq. feeding on ends of oak branches - eating
developing acorns? 10:30 just about clear.



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23 Aug, del Norte St., Berkeley, Alameda Co., Calif.
1:21 pm varied sunny after noon with
fog bank to W-N and occasional whiffs
to NE = 83°F in sun.

24 Aug. Fog, breezy. 57°F cool am.

scattered fog & patches of blue & sun off &
on all after noon 4:30 in sun = 76°F, wind
7:50 pm clear, calm, new moon, clouds far to W.

25 Aug cloudy, same fog, some cirrus; 7:30 am
= 57°F. 9:11 am = 62°F. 10 am mix 1/4 blue,
some fog & bands of high cumulus-cirrus.
noon - sun out, still lots of multilayered
clouds, breeze & 65°F. 3 pm more cloud cover.

26 Aug 75% cloud cover - cumulus - 10 am = 61°F,
12:38 pm 74°F some large dark cumulus.

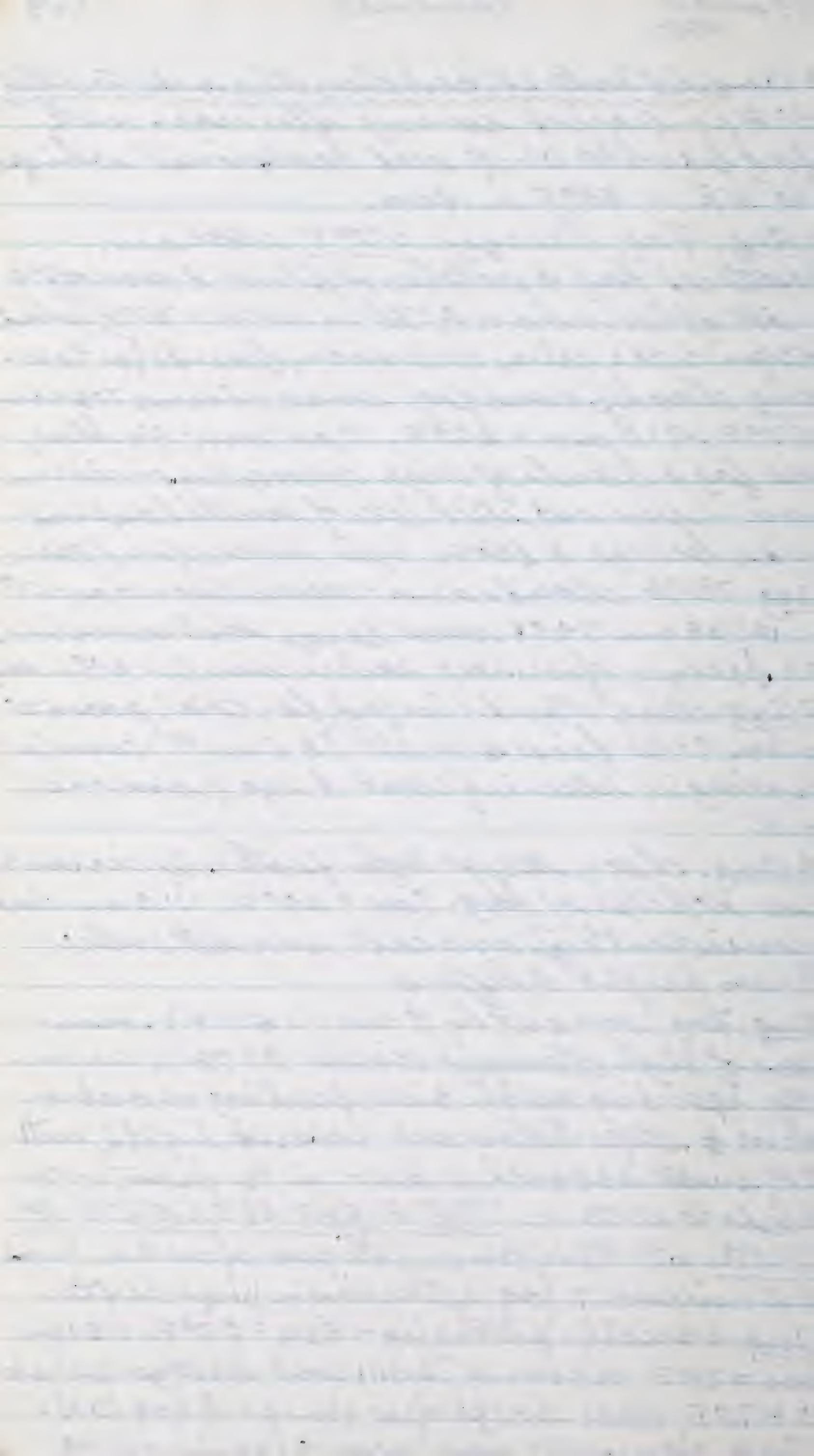
4:11 breezy, few more darker cumuli. - 84° in sun.
27 Aug clear, clouds (or fog) far to W. 8:30 = 62°F
calm. 9:40 first small (& 6 in #) cumulus
forming in blue in front & up from me
to N.

28 Aug. clear, except high feathery cirrus &
few whiffs of fog. 9 am = 64°F. 11:15 am almost
a consistent high overcast, sun alternates
between bright & diffuse

29 Aug fog, sun out by 9 am (= 62°F), now
layers of high clumpy cirrus 80%+. calm.
fox sq. spending much time feeding in oak on
rocks & steps below are covered lightly with
bits of small acorns! 11 am - in 1/2 frame 10%
clouds to 60%+. THE FIRST MONARCH TO
SOUTH at this time late pm a few thin bands
to N - cirrus. 7 fog returning in huge drifts.

30 Aug variable patchy fog - 8 am = 58°F. 1:30 pm
clear = 71°F warm in sun; cool breeze in shade
6:40 = 71°F, clear except a few clumps of fog to N.

31 Aug complete fog cover, 8:22 am = 60°F



Mistman
1990

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31 Aug, all night S. Beckley, Placer Co., Calif.
10:18 am Red Admirable butterflies (5) have
been flying about & landing on ex-
posed branches of oaks - these are the
fastest & most erratic of butterflies
about. = 65°F diffuse sun a few patches
of blue.

1 Sept clear with only a few small patches
of fog. 10:30 am - 64°F a cool breeze -
in shade - feels like late fall.

2 Sept clear early, 10 am = 64°F. 3:22 pm clear
alm & 72°F

3 Sept broken fog to 9 I am = 59°F calm &
quiet. Warmish pm

4 Sept patchy fog to 9:27 am when high
sun & 70% clear. 2:15 pm = 68°F (in shade) &

1 monarch to SE (top of W elm). 2:19 pm
another monarch. 4:38 = 80°F, 1 more monarch.
6:45 pm 25% banks of falling fog from SW
= 77°F shade.

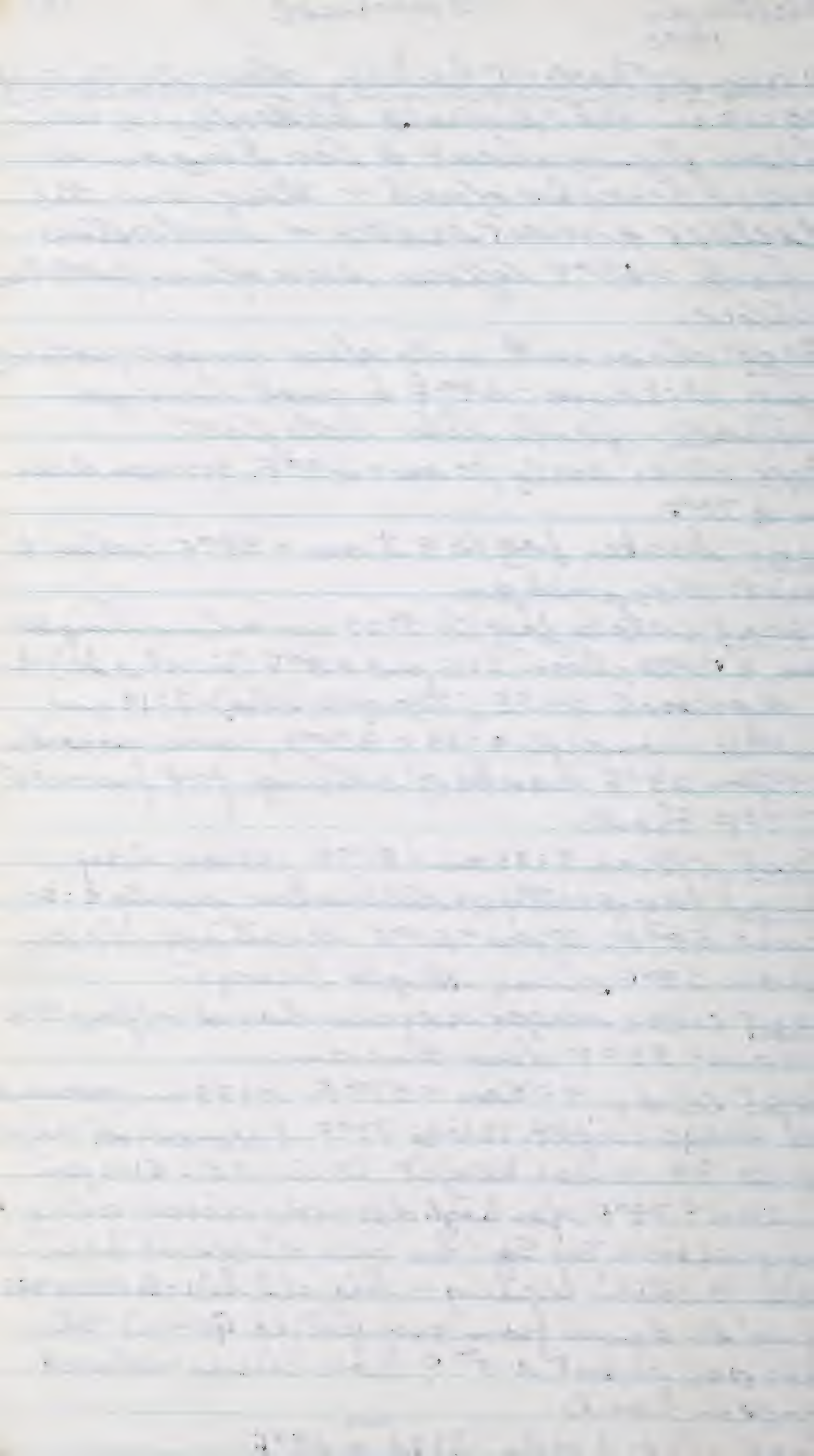
5 Sept clear, 8:33 am = 57°F. nice day

6 Sept fog pretty well broken up by 8:50
9 am = 58°F. 10 am = 61°F vertically clear.
noon 63°F clear, slight breeze.

7 Sept clear, except narrow band of fog to W
8:15 am = 55°F decs this am.

8 Sept clear, 9:15 am = 59°F. 10:33 am 1 monarch
to S ledge height. 12:09 = 77°F 1 monarch high
up to 3/4 cedar height to S. - SE. 6:13 pm
in sun = 74°F a few high deserts cirrus. a big
aggressive Fox Sq (the one I have not been
able to catch) feeding - big, old black marmoset
on side down from arm pit to ♀ - is the
other one about a ♂? More cirrus - short
clumps in bands

9 Sept clear & calm, 11:30^{am} = 68°F



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9 Sept, del Norte St., Berkeley, Alameda Co., Cal
They are cutting down an Eugenia tree
in front yard of house next door to S.
It is diseased, 45' high + very dense.
Band-tails have nested in it in early
80's & I suspect Fox Sp. have nested
in it this year because the juv. came
from that direction & no other likely
candidate.

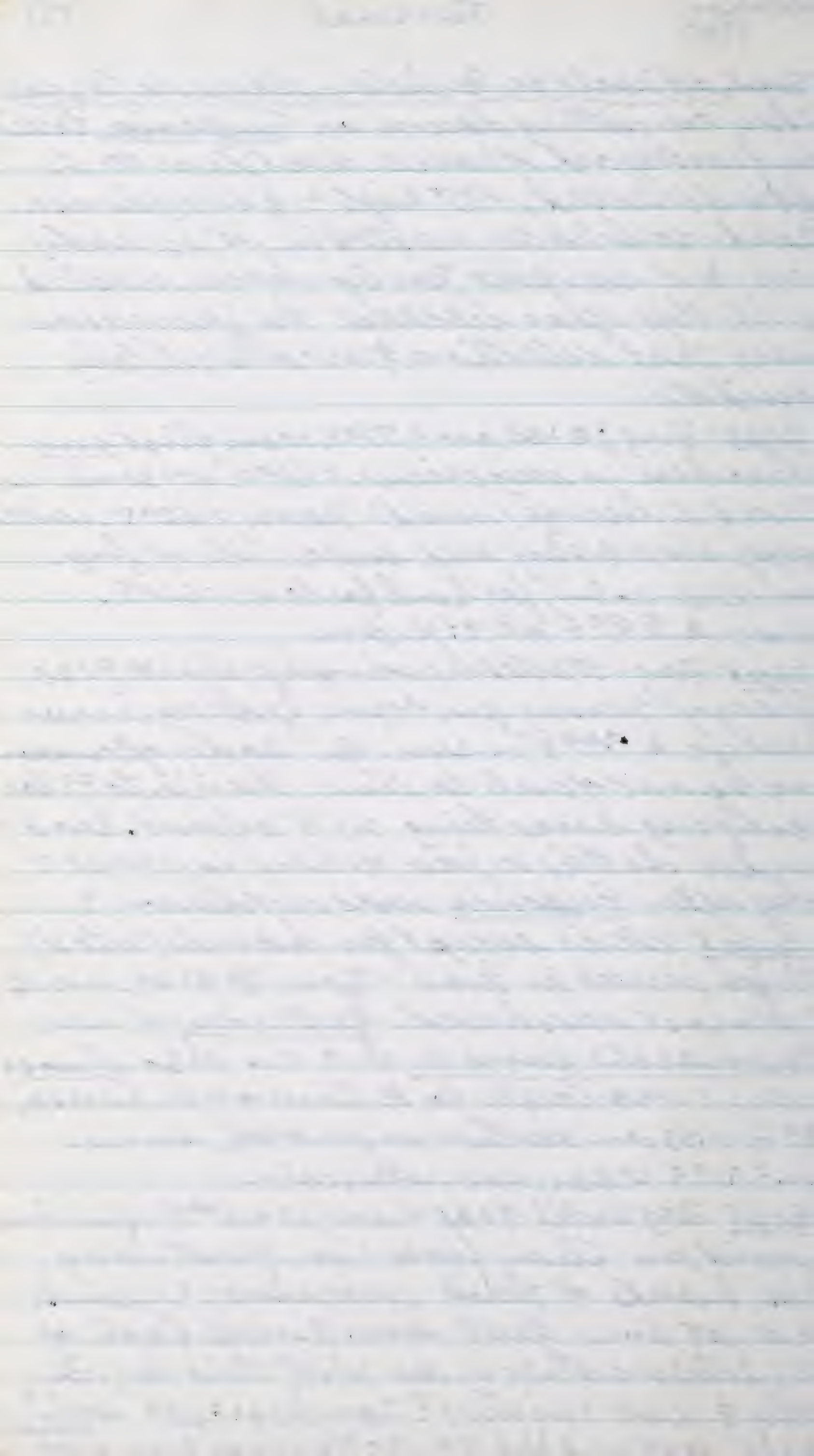
10 Sept Fog; 8:30 am = 57°F. 10 am first sun
but no blue in my view. = 61°F. 10:30 am is
clear & a breeze (mild). Noon = 62°F, with
hazy sun & sky and small bits of fog.
3 pm clear calm, fog hung far to W. = 66°F.
clear & 59°F at 9:15 pm

11 Sept Fog. Started clearing up about 7:30
breezy. Sunny pm 4 pm feathery cirrus
breeze & 94°F in sun. In early afternoon
Fox Sp. out yard to line then into Pittos.
carrying something 2x3" about head-
under. Is this a juv. where is nest?
why after Eugenia was cut down?

12 Sept clear except for hands (W to N)
of high cirrus in time - 7 am to 8:25 moved
to almost overhead. Yesterday I saw
2 Monarchs going S. 10 & 2. 11:30 almost
clear; 1 monarch to E low over house.
69°F. 11:53 am another monarch, same.

6 pm = 71°F clear, now rather calm

13 Sept Fog until 9:30 + am; 10 = 60°F. a few cirrus
in mid am. Then from 1 on great long
thin bands of thick cumulus (?) clouds
S to N. at times dull sun. A real feel of
fall (late) weather in air. Will this be an
early & wet winter? 7 pm clear = 65°F "cool"
4 Sept scattered fog 50-90% cover, 8:11 = 57°F calm



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14 Sept, ~~del Norte St. Berkeley, Alameda Co., CA~~
9:30 am new fog building up 50° to clear
10:40 am 1 monarch N to S $\frac{1}{2}$ up oak so
flying low (& fast). = 62°F. Some of the
plane trees on 'old grove' are brown -
my elms are ahead in changing / falling.
clear at 4:30 = 79°F.

15 Sept clear, but for few isolated whiffs of
fog (W & over hills) 9:am 59°F. 10:38 am
= 63°F 2 monarchs from N - 1 fast at
roof level; 1 large gliding over top
of oak (both to SE). 11:14 another mon-
arch to SE. 6:47 meeting sundown, clear
& 70°F quiet - only a mistle & a petiole

16 Sept clear 9:37 am = 61°F

17 Sept clear in Palo Alto; home 1:25 pm clear
heavy fog here by 7 pm - = 58°F

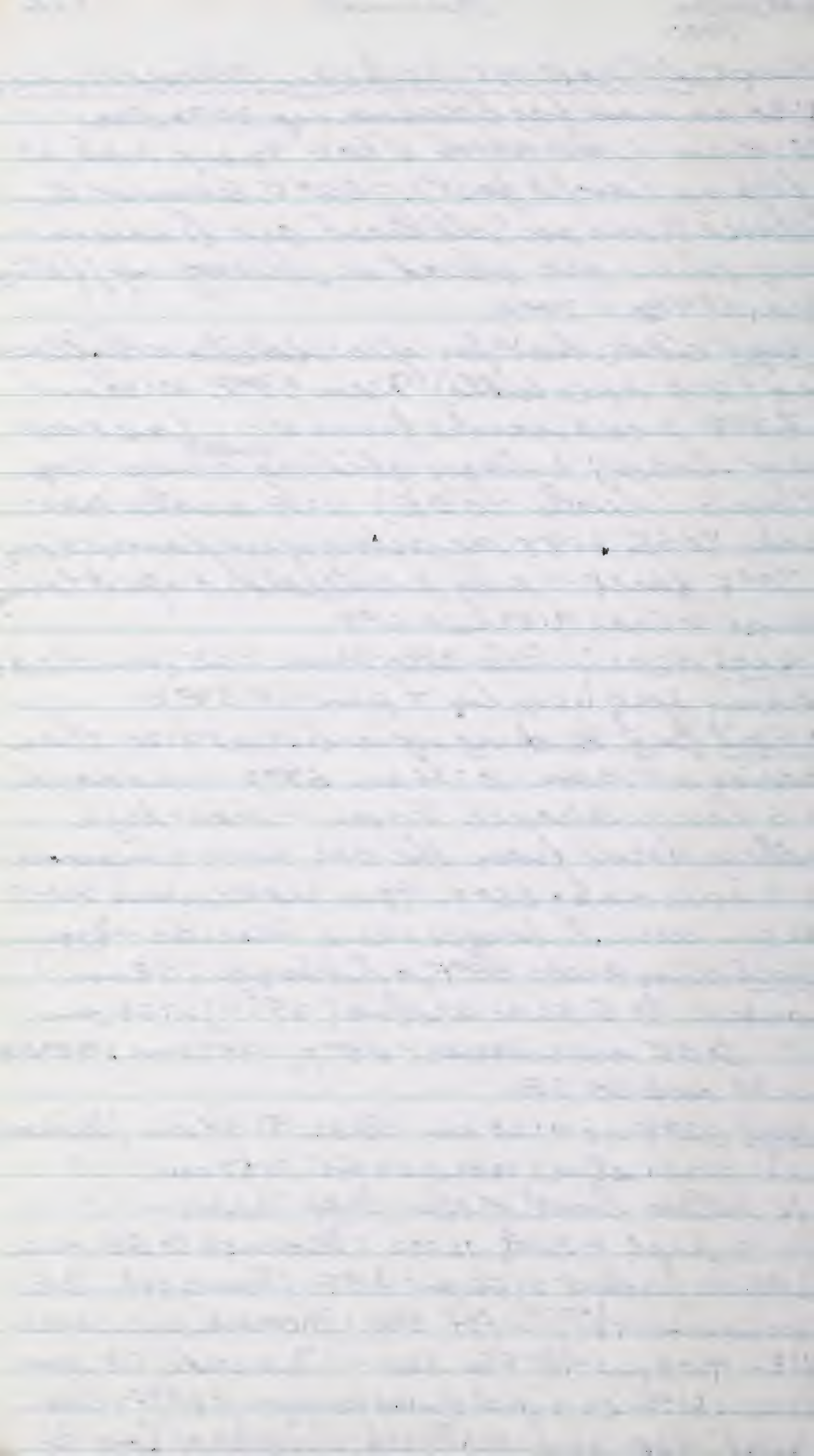
18 Sept fog; breaking up a bit at 9:30 then
heavier at 10 am. 10:36 am 63°F 1 monarch
to S low over house noon - new high
feathery cirrus from the SW. 2:44 1 monarch
to S over oak = 66°F. 4 pm more cumuli SW-N
4:36 pm cumuli larger, more descrite - form

19 Sept. clear 8:20 = 55°F, a bit hazy. 11:18 am 1
monarch to S over W elm (75' +). 1:55 pm

" to SE over house: 69°F. 2:47 pm 1 monarch
low to oak to SE.

20 Sept 62°F at 9:20 am clear. 9:44 am 1 monarch
to N over elms across St. 11:57 am 1 "
to N below level of elm tops. noon - 1 "

to S high = 76°F. 12:02 1 monarch to SE over
house. back at 2:56 pm 81°F 1 monarch to E
over house HOT DAY 3:20 1 monarch over house
to NE. 4:05 pm 98°F in sun - 1 monarch SE over
house. 6:52 sun just above horizon = 69°F. clear
21 Sept clear here scattered chunks of fog to

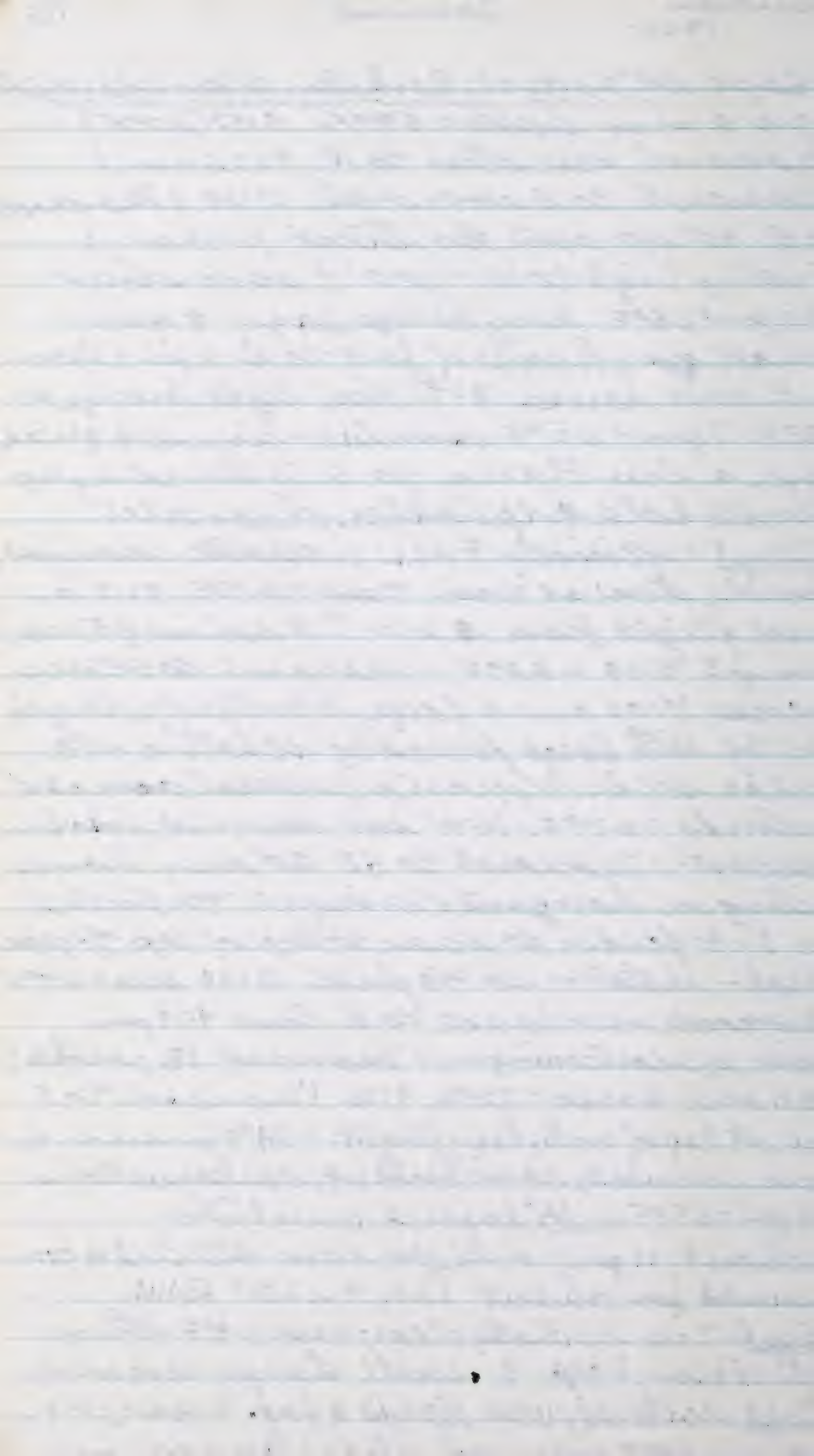


Christman
1990-

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21 Sept, del Norte St, Berkeley, Alameda Co, CA
W, N & over hills = 59°F 8:51 (60°F) 1
Monarch over elm to N. 9:26 am 1
Monarch to same cab. 10:14 1 Monarch
to S. 30' up over the street 11:35 am 1
circling high to W - 100' + over elms
1:50 pm = 66°F heavy breeze hazy & few
small ~~over~~ chunks of fog to N. 3 pm 1 Mon.
to E over house 3:41 clear light breeze =
82°F. 7 pm = 65°F cumulus - cirrus & general
haze. a low P. area to S. is sending up
thunder hail & sprinkles. clear to W.
22 Sept = officially FALL variable cumulus
clouds, dew at 7 am. 9 am = 61°F 9:17 a
small flight from W = ? 3 robins & 5 wax-
wings? 9:18 = 63°F 1 Monarch to SE over
house 10:02 am a large, beautiful pelaged
Fox sp. with large descending scutulum into
feather seeds. almost a general overcast
of clouds = 67°F. 11:41 sun now out, broken
overcast. 1 Monarch to SE 20' over house
sailing on horizontal wings. 11:45 filled
up D-4 feeder to even to top of top of upper
perch - metal - so 2/3 full. 12:28 sun = 69°F
1 Monarch over house to E lawn. 4:18 pm
heavier overcast coming in. 1 Monarch NE; another 1
to SE over house - 72°F, 4:36 1 Monarch to S
just at top of cab, lazy flight. = 74°F in sun. &
more cumulus, same build up, darker bottoms.
6:50 pm = 65°F multilayered cumulus.
* about 11 pm a light rain started & con-
tinued for about 1 hr. = .20" RAIN
23 Sept 7 am vertically clear; 9 am = 64°F lots of
high cirrus, haze & small clumpy cumulus.
24 Sept scattered, misc. clouds & fog. 8:44 am = 61°F.
9:48 am = 62°F 1 Monarch glided to a rest on



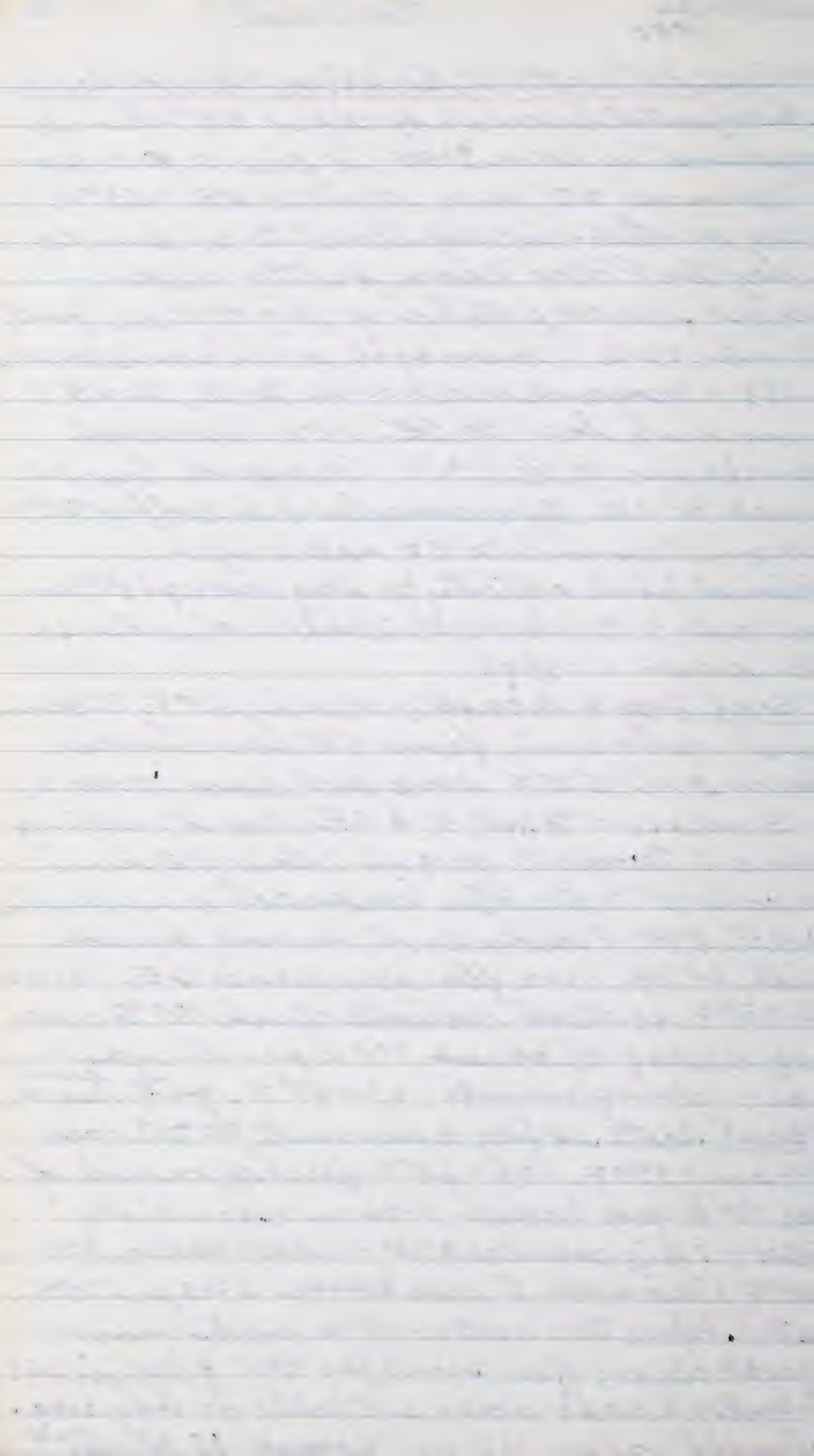
Christman
1990

Journal.

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24 Sept, del Norte St, Berkeley, Alameda Co., CA
horizontal branch of cedar 55' above
ground; in sun. 9:55 it flew S. 11:16 pm
1 Monarch 25' over house to SE = 65°F.
11:31 another - at my level to S, then to
N by the Pittos. Noon pretty clear
except small patches of fog to N. in part
of me. 12:16 1 monarch over house to SE.
12:33 1 Monarch over house to SE, 12:55 1
monarch low to SE. 1:37 1 Monarch
over house to W! 4:11 1 Monarch low, W
of oak to SE. A few cumulus & bits of fog. 82°F
4:22 pm 1 Monarch to SE oak height.
Minimal bird activity to say, except H.F. in
a.m. only 2 tanagers, chickadees a few doves.
after noon - zip!

25 Sept. Fog & variable clouds, 61°F. 10:35 am
first monarch from SE over house
down & W = 62°F sun out now. 10:49 2
or 3 more; to NW, S, & SE. and seeing
same 1 twice? 11:15 am 1 low SE over
the oak. 11:17 another, monarch over W side
to SE. 11:41 1 monarch on oak branch
N side, 30' up. 11:42 flew over house to E. 3:55
pm 75°F scattered variable clouds 80% cover
long sharp shadows. 7:02 pm almost
clear - 1 clump/cumuli - W = 61°F. quite ^{sun} down.
26 Sept scattered fog & cumuli, 50% ± cover
3:34 am = 59°F. 11:13 = 63°F first monarch of
am to E over house 11:26 am essentially
clear - 1 big cumulus WNW - cooler today. 11:41
= 65°F 1 Monarch E over house. 2:08 pm = 70°F
until before this noon - this week - now
bright clear; few cirrus far to W & incipient
thunder heads over all hills in bay area.
almost calm. 2:21 pm 1 Monarch SE 30' over ^{oak}



Christman
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Journal

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26 Sept., dd Route 51, Berkeley, Alameda Co., Calif.
3:59 pm = 87°F in sun. 1 Monarch over house
to E. Is this year going to be a drought?

27 Sept heavy but scattered fog. 10:22
62°F 1 Monarch to SE over house.
12:43 pm a few cirrus have gone over. also,
down Salano Ave. 1 Monarch to S at
20' above street. Much navigation at
migration height.

28 Sept Fog, by 8:50 am (= 61°F) no breaks
in it. 9:16 am a few small holes in fog (= 62°F)
= first Monarch to SE over elms. 10 am =
clear, back of fog to W. = 63°F. 4:30 pm
low fog to W & N. 6:30 pm complete fog = 59°F

29 Sept clear, then quickly at 7:30 am low thin
fog = 9:03 - 58°F. 10:11 am foggy sun & 60°F
- first Monarch seen with me (level)
from SE & down to NW! 10:14 1 Monarch
from NW to SE over house (same one?).
10 - I refilled the D-4 which got down
to nothing yesterday - now 1" above
top perch bracket. Within 10 minutes the
nuthatches arrived then H. finches &
then chickadees! 10:19 1 Monarch eye
level to SE. 11:36 am 1 coasting hi to Lo-SW.
1 pm another Monarch low to SE. 4:47
1 Monarch up over house to SE. 6 pm
fog coming in & low - 1/2 height of elms 59°F

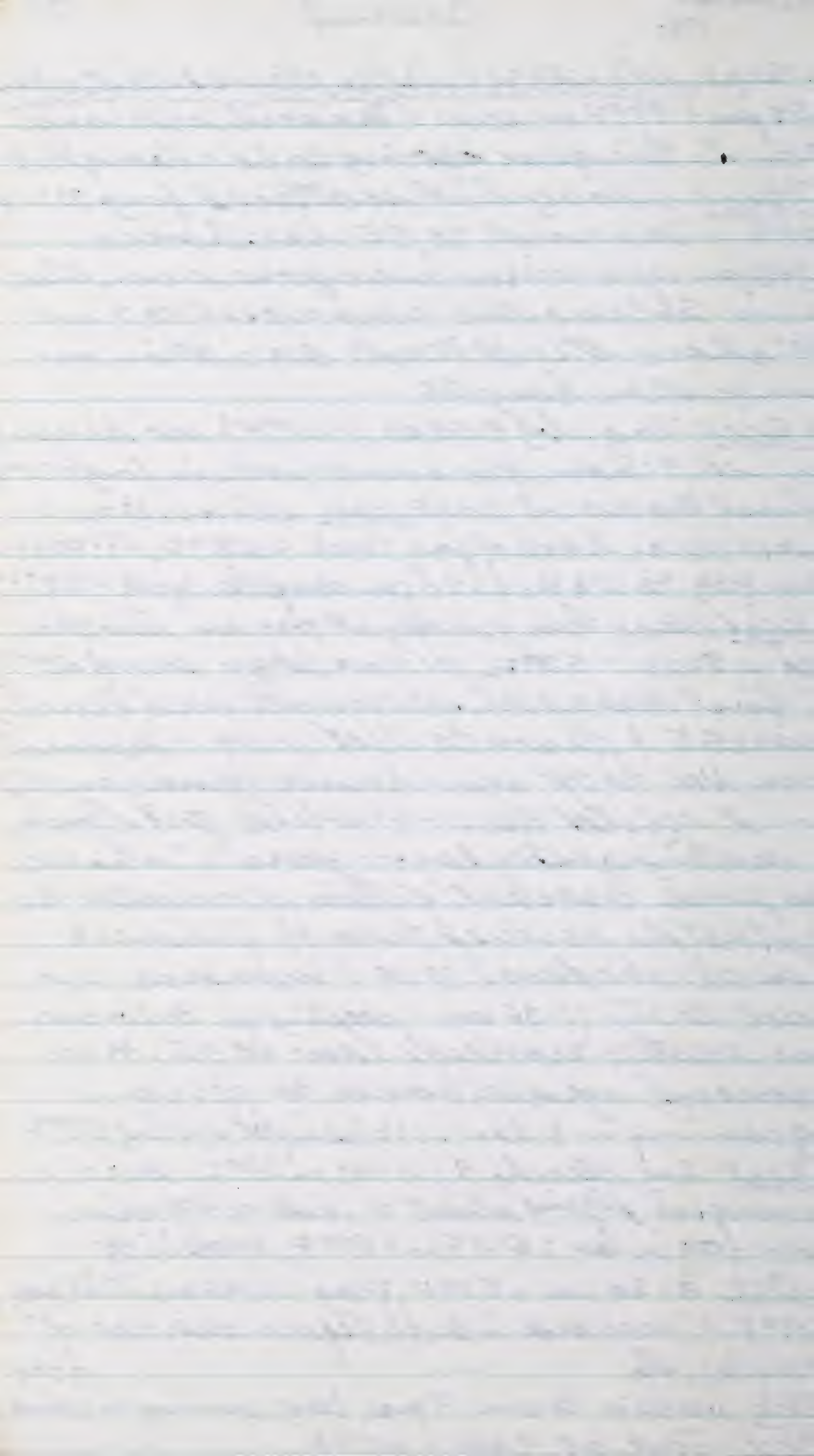
30 Sept Fog, clearing 9; 10:47 am 64°F 10:52 1
Monarch flying about S side of NW elm.
6 pm fog in low; 6:35 pm = 60°F. next day

1 Oct 8:30 am = 57°F, Fog 10:46 am still fog
59°F 1 Monarch in ash tree over top of
NW elm, etc.

4 Oct birds in town 3 pm, fog coming in wind

5 Oct. Fog, at 9 am = 60°F

87°F



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1990

Journal

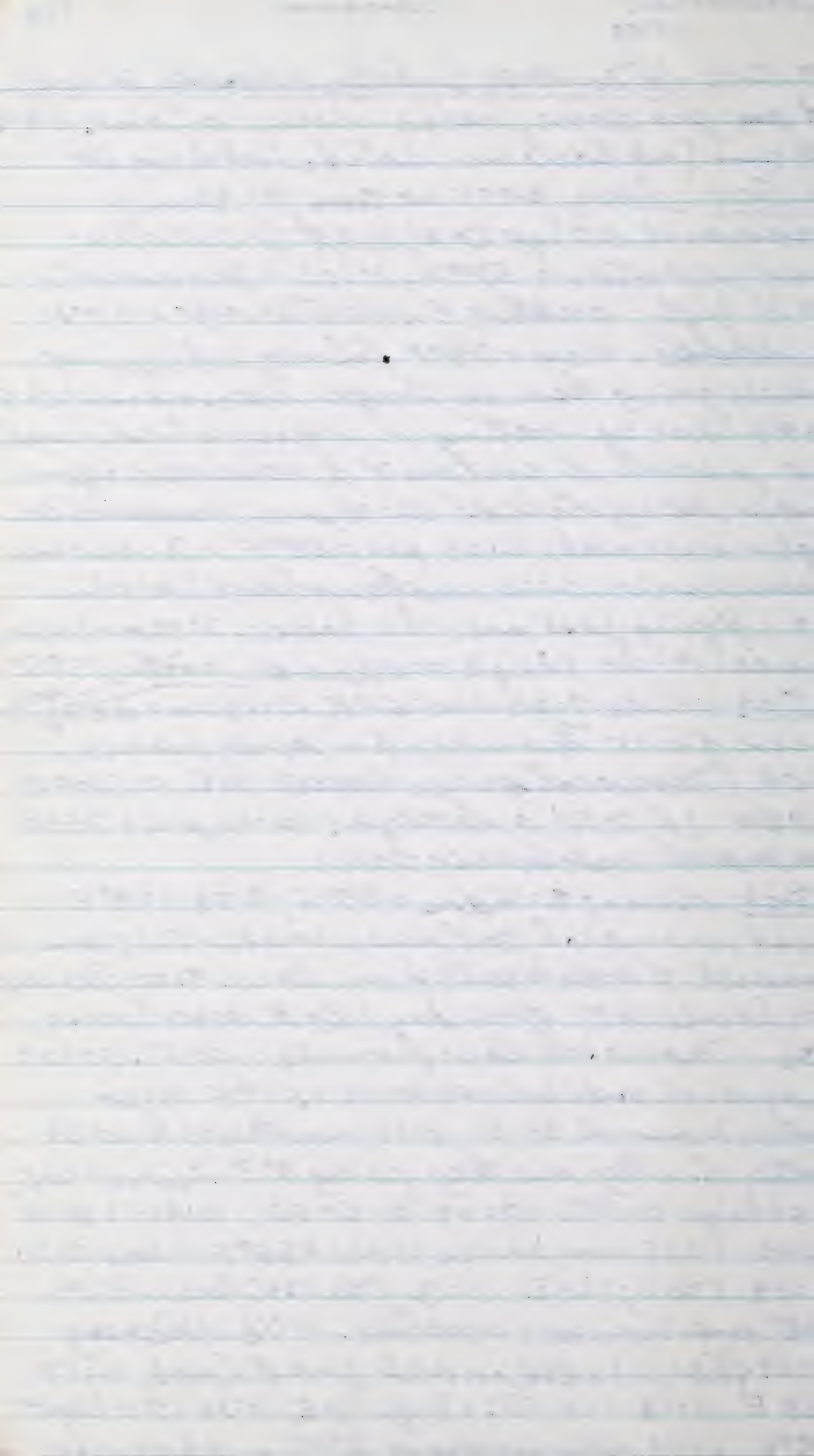
178

5 Oct, ~~del Norte St. Berkeley, Alameda Co. calif.~~
1 pm fog gone, miss cirrus about 64°F
4 pm fog back in - solid, but bright

6 Oct clear, 54°F at 9 am 9:40 am 1
Monarch 60' up to N, next to NW elm -
one earlier = 55°F . 10:07 1 Monarch
to N high; another 5 minutes ago = 57°F
in shade. 11 am = 59°F filmy whisks of
cirrus going thru in huge banners N to S
11:49 Fox sq. eating a squashed dumb
of a peach & put out 2 weeks ago -
now very dried. 12:46 pm 1 monarch to S
high - over oak. 2:23 pm = 68°F 1 Monarch
E over house. 2:26 another about NW elm.
3:18 1 flying fast over the house. 3:38 pm 1 over
house. 4:20 1 high over house, another, = 85°
in sun

8 Oct clear, 9:24 am = 61°F . 10:13 am = 65°F
and first Monarch - over house.
11:09 1 Monarch over house to E = 69°F
11:10 am 1 E to W a breeze! 12:42 pm = 74°F
1 Monarch over house to W.

9 Oct clear; 8:15 pm. = 53°F . 8:34 = 54°F
first monarch to N over house. 9:07 am 1
Monarch E over house from law. 9:27 1 Monarch
over house to E. 9:46 am 1 to E over house
9:56 1 Monarch law from NW. to E. 10:28
1 Monarch over house to N. = 65°F 10:30
another monarch to N. 10:31 another to N. 10:33
another N. why are they going N? Then 1 to E.
10:35 1 high to NE. 10:39 2 to SE. 10:41 - 1 to SE
10:42 1 to E over house 11 am = 66°F 1 law to N.
11:09 1 to N; 1 to E. 11:13 1 to NW law. 11:14
1 SE over house; another. 11:16 1. Vicarog
fast flies, landed on oak good leaf. 11:17
1 to E, 11:18 1 to NE; 1 high to E, 11:36 1 to S high
 68°F . 6:49 after sundown 70°F . a hot day

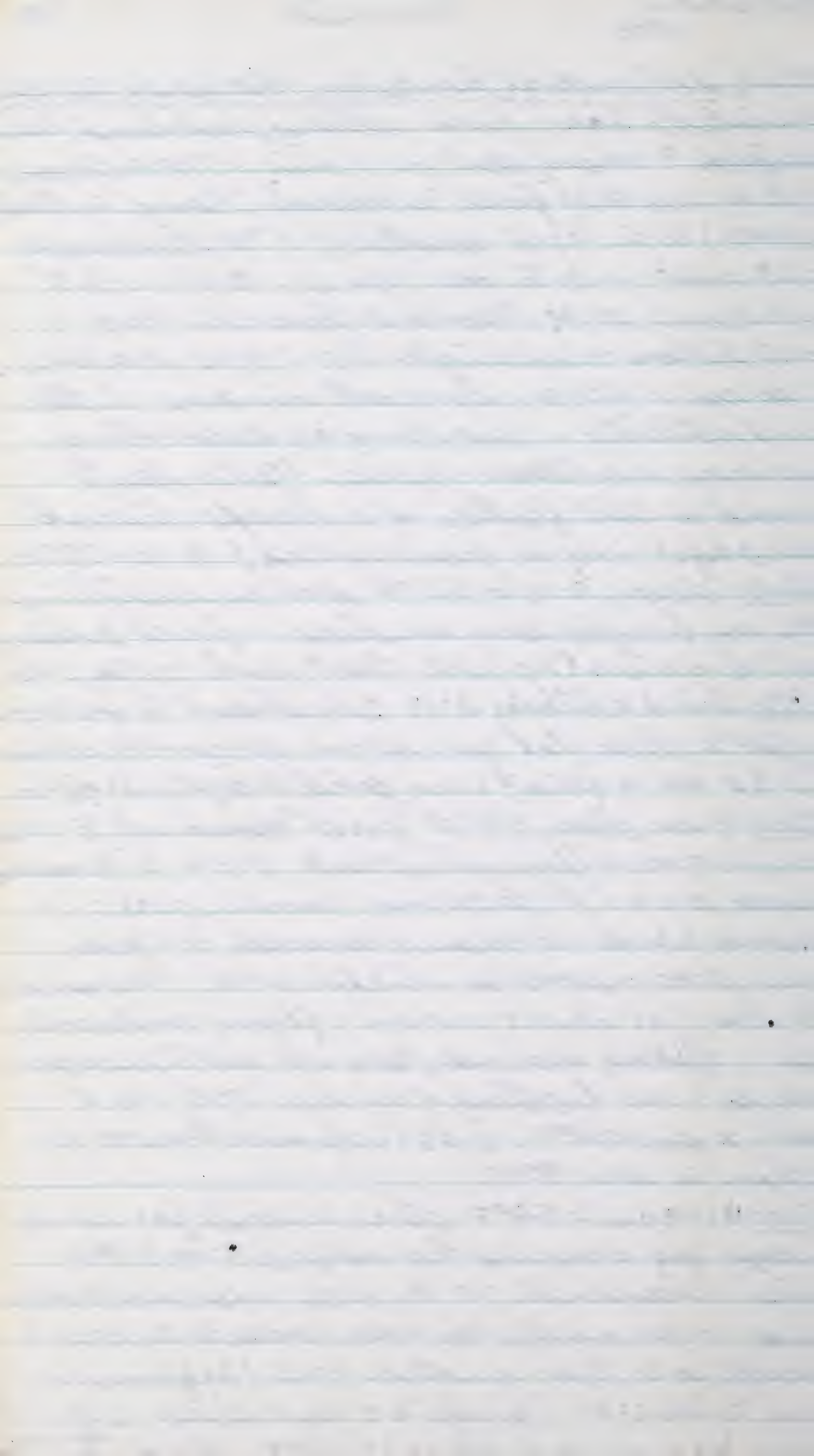


Christman
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Journal

179

10 Oct., del Norte St., Berkeley, Alameda Co., Calif.
crickets have been calling, but loud last
night. 8:14 am (dub at 7 am) : 53°F clear.
9:10 in sun to W first monarch (temp in shade
is 59°F) to S. 9:15 another S (3/4 elbow height)
10:28 = 66° 1 to E. over house. 10:31 - 1 to E
over house. 10:39 1 monarch low to S. 10:47 1
to N below tree height. 11:17 1 to SE over house.
11:20 am 1 N to S - seen with window little
bird activity - watching an excavating
garage next door - noise. Yesterday I
found a tail feather of a Cooper hawk
amongst ivy in front yard! 3:30 = 78°F
11 Oct clear, 8:19 = 50°F saw an everything
8:56 am bright sun on elms - first monarch
to N. I wasn't up here that much today, but
little bird activity. 6:15 sun about to go down
= 69°F clear, but for some horizontal clouds.
(?) to W. a fire? very quiet except for traffic.
12 Oct 9 am clear, 55°F first monarch E over
house. 9:42 1 flying about oak. 10:04 2 monarchs
in front. 10:08 1 " to SE over house. 10:33 1 "
to N over house. 10:45 am 1 monarch to N over
elms. 12:40 = 69°F in shade. 12:52 1 monarch
to S low (at about noon, flying under oak)
1 pm 1 gliding over oak, then up until disapp-
eared! no beating of wings. 1:55 1 to N
low. 2 pm = 74°F. 2:03 1 high over elms to N.
3:43 pm in sun 90°F.
13 Oct 8:48 am = 54°F clear except for some
brassy fog around the edges. 9:00 55°F
first monarch to S. 10:56 1 monarch S over
house. 10:58 another M. over house to E. 11:27 1
M. high to S, then another. 11:32 1 high over
elms to SW. 1:07 1 M. high to S over elms - 2:11.
1 over house to N, fast! = 65°F clear ^{since} 9



Christman
1990

Journal

180

13 Oct., del Norte St., Berkeley, Alameda Co., Cal
2:23 pm / high over clouds to S. 2:58 / high
over house to S.

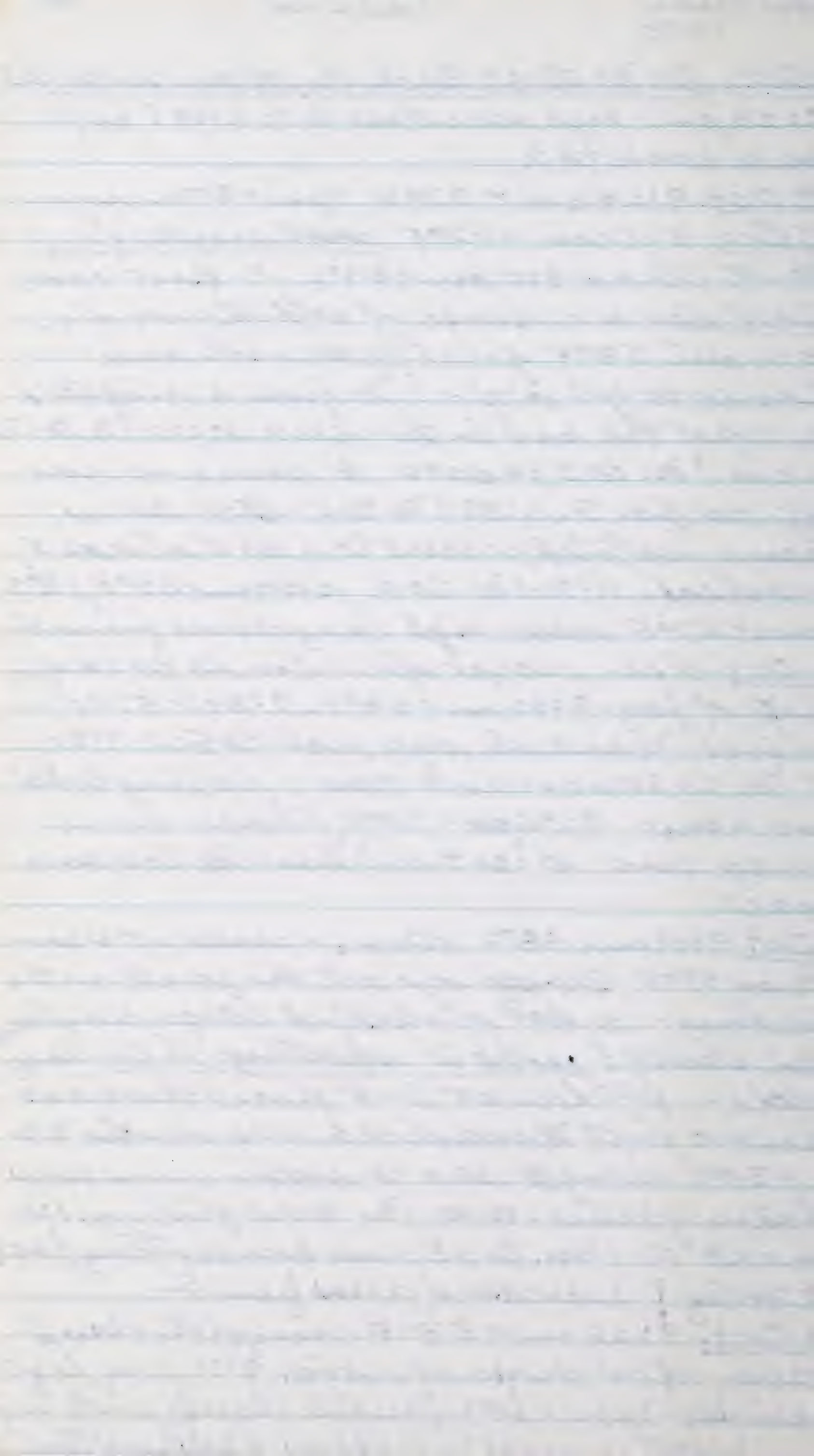
14 Oct. 9:28 am = 57°F 4 pm = 81°F in sun.

15 Oct 8:17 am = 52°F cool winter feel
to it. Clear 9:27 am = 54°. " first real
fall day in a sense of cold interior air.
10:15 am 58°F first Monarch over
house to W. 10:21 - 1 M. from N, alighted
in top of the oak in the sun. 10:38 1 M. to NE
11 am 1 M. to S; = 60°F & some cirrus
off. to far S. 11:35 1 M. to E. 11:50 now
some isolated cirrus to S to N almost
overhead. 11:51 - 1 M. to S. 12:54 pm = 65°F, 1 M. to S
3 pm = 67°F more high long cirrus from N.

16 Oct. clear, except a few clouds to S & few
bits of fog. 8:52 am = 54°F. 9:39 (= 57°F)
first Monarch over oak to SW. 9:51
- 1 M. to SE over oak. 10 am 1 sailing to NW
over house. 3:06 pm = 73°F (have been
away since 10:30 ± am) now 1 M. to W over
house.

17 Oct 8:19 am 48°F Clear - cooler at 6:30 am
9:46 am 57°F Sweep up all the junk on the
landing - a lot of shelled large sunflower
seed shells! who is shelling these large
seeds - feeders at D-4 throw them out
about 10 first Monarch to S. 10:16 another to
S. = 59°F bright sun to entire view except
shadow of house. 12:35 1 M. to SW gliding. 1:11
pm = 68°F 1 M. to SE over house, strong fast.
* 70x50 ? Increase of cirrus from S -

18 Oct. 8:26 am = 53°F complete cloud
cover a few drops of rain. 8:31 very light
sprinkle. noon = 61°F Variable clouds, with bright
sun, bright overcast to shadows & patches of blue



Christmas
1990

Journal

181

18 Oct, del Norte St., Berkeley, Alameda Co CA
no monarchs so far today! 12:40
sun out - 62°F first M. to E. 12:46 1 M.
fast overcast to SE. 4 am dull light
with dull overcast.

19 Oct very light rain last night (.18")
roes dripping & puddles on landing
7 am = 51°F varying amounts of fog (?)
from NW & bands of fog over upper
hills to E. 9 = 52°F bright sun. 6:25 pm
sun just down = 59°F clear all day, little wind.

20 Oct. clear, calm 9:15 am = 53°F. 10:10 am
57°F in shade - first monarch to SE.
4:48 pm = 70°F in sun, have been curious

21 Oct 10 am = 57°F, clear, calm. Nice day

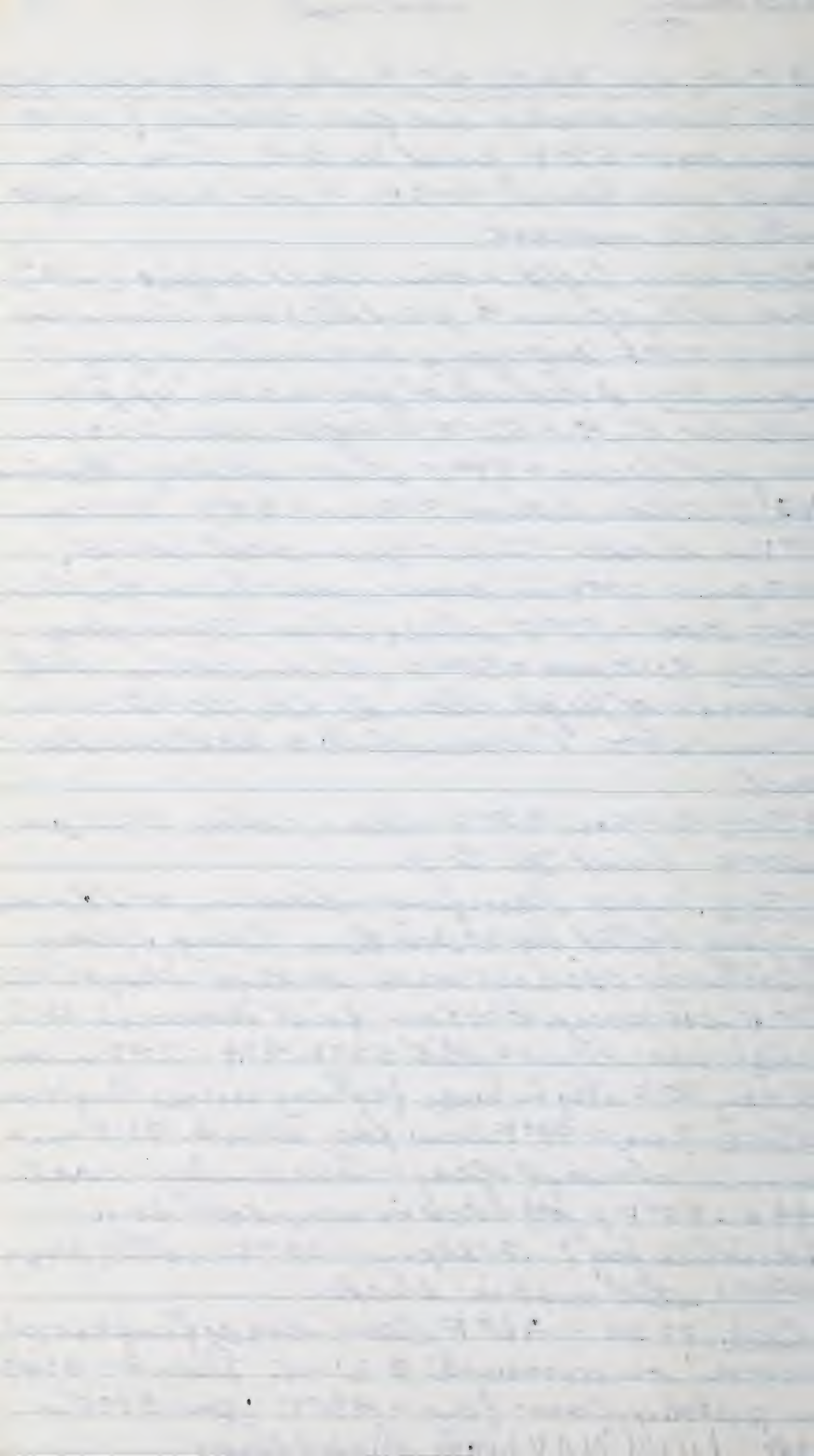
22 Oct 9:50 am = 59°F clear, calm with
bands of high clouds far to SE-SW.
11:11 am = 63°F 1 monarch to S past window -
fast.

24 Oct 8:45 am 52°F clear, calm. 10:25 am
= 60°F first M. to S.

25 Oct rare low fog - down to the oak
-; fog lifted by 10 am then long filmy,
feathery cirrus over entire sky 10:45 =
57°F sunny. 10:45 am first monarch to S
- high overcast = still 57°F. 4:14 = 70°F in sun
all day 50± sky in huge feathery cirrus / bright sun

26 Oct. 7 am = 49°F low fog, dark. 8:15 am =
same almost clear - blue sky - cool.
9:44 am 53°F; fog back in very dull sun -
variable fog! 12:30 pm = 62°F rather hazy
- clear, still wet in shade.

27 Oct. 7:30 = 46°F clear, "rosy fingers of
dawn" on cumuli to W-N. Then 8-8:45
am patchy low fog = 48°F. 1 pm 59°F in
shade; first monarch about dusk



Quincy
1990

Journal

182

27 Oct, dd Route 21, Berkeley, Alameda Co., Cal.
2:38 pm 63° in shade. 2 Manards
flying together over oak, E. over house.

6:24 after dark 56° - 20% cumulus from W
calm quiet. Joe will permit fruit landing.

28 Oct. STANDARD TIME 8 - 54°F; a few
cumulus to W-N & also whiffs of fog to W.
Variable cumulus from SW all day, periods
of patchy fog also 4:15 = 65°F.

29 Oct. clear, some fog over hills in patches.
8:20 am = 51°F. 11 am = 59°F first Manard
to N., low.

30 Oct 50°F at 7 am; clear with a few cumuli
then fog came in 8:15 = 55°F complete over-
cast. 10:42 a bit windy; 61°F now bright
sun intermittently with small well defined
cumulus clouds. a few high cirrus

3:09 huge bands of cirrus/cumulus S to S
off to W. 4 pm a Fox Sq. has been going from
oak to line to Pittos. with a corn in mouth.

4:21 still cumuli S to N to W moderate sky,
darker to horizon to W. periodic sun.

4:30 now 2 Fox Sq. working oak - 1 top, other
NE low - 20' apart eating it appears no
scumming to live, etc.

31 Oct about 2 am last night a light rain
started - moderate rain* at 7 am = 55°F,
stopped by 8 am. overcast with few holes.

12 pm bright blue sky with cumulus c. = 60°F

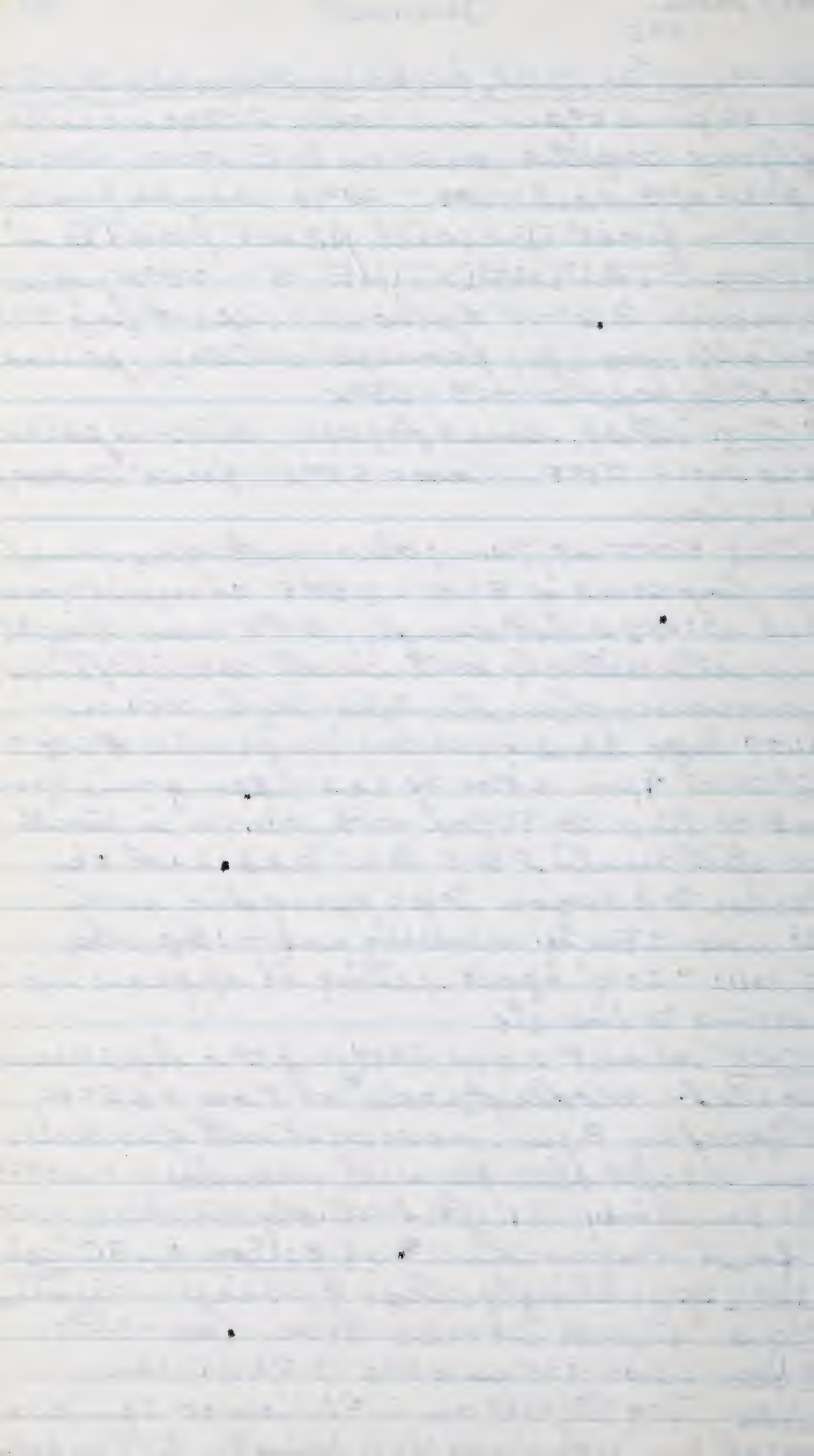
1:11 pm windy, bright, virtually cloudless, 61°F

& first Manard. * at 8:15 am = .30" rain

1 NOV sparklingly clear & crisp - typical
after a storm comes thru 11 am = 54°F

4 Nov clear 9:15 am 55°F to PA at 11 am

5 Nov Fog till 9:30 am in PA. None at 2 pm clear
except few high cirrus N-S going E 80°F in sun



Christman
1990

Journal

183

6 Nov. del Norte St. Berkeley, Alameda Co.
all day - breezy, cool, clear

7 Nov. calm, cool, clear (band of cirrus
to S) at 10:30 am - 56°F.

8 Nov. clear, cool (11:15 am 64°F) calm
with thin hazy cirrus. The landing
is still unfinished - anyway very
little bird activity. 2:45 pm 86° in
sun. du P.M. Joe M. painted AL on landing

9 Nov. clear, calm; 8:30 am = 54°F.

11:17 am aluminum paint still wet in
spots. Will put on another layer.

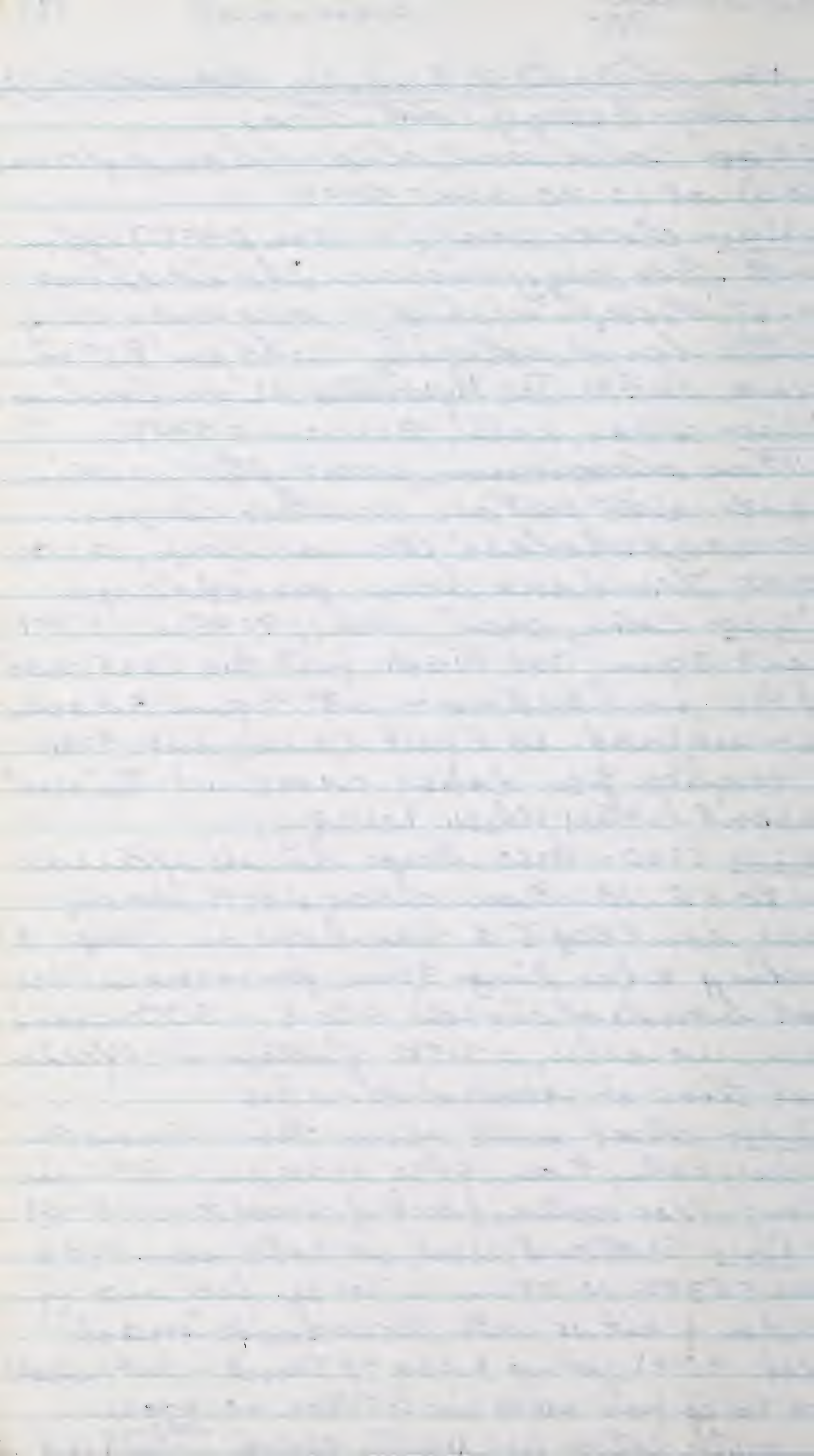
No manna was last several days. 12:15
67°F. These have been quiet days

10 Nov. calm, cool, clear; 9:45 am = 57°F
about 3 pm Joe Mische put the last coat
of AL on landing - at 4 pm 3 doves
in - no feed. so I put same out. 4:46
a towhee then doves came in! The "vee"
doesn't bother when hungry.

11 Nov. 7:30 - 9:30 huge bands of cirrus
SW to NE. 10:10 am clear, 63°F. early-
doves, bent leg J & towhees on ledge &
landing & feeding. 3 pm for several hrs.
great bands of cirrus S to N - 80% cloud
cover, no sun, = 71°F. fillup D-9 feeder
first time in several weeks.

12 Nov. clear with a few thin cirrus SW
to NW, calm, 9 am 59°F. 3:22 pm = 91°F in
sun; clear calm, band of cirrus to W (N-S)

13 Nov. scattered cirrus, variable sun. 9:08
am = 53°F. 10:09 am a Fox Sq. feed out of
NW elm & hit ss with decernable "smack"
(feet 40'+) got up & ran to trunk - hit asphalt
noon Fox Sq. from oak to line to Pittos. no goon.
The winter pattern has pretty much ^{been} established



Christman
1990

Journal

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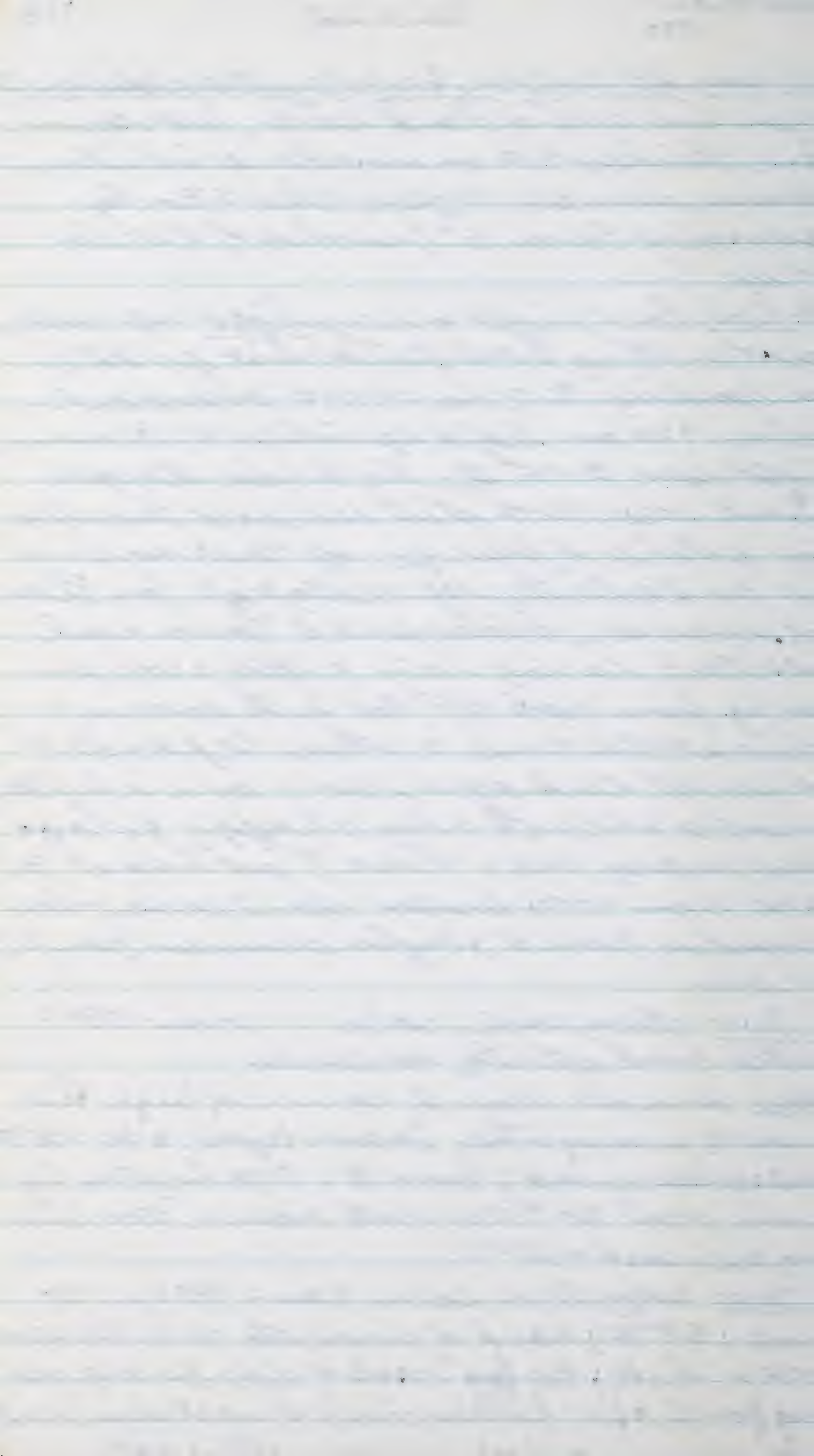
13 Nov. del Norte St., Berkeley, Alameda Co. CA
3 pm mixture of cloud sorts, but some
are thicker. 4:31 pm more clouds including
lower cumulus types. also 2 Fox Sq.
running down 6" branches of NW elm
60' up.

14 Nov Last night a very light sprinkle
not wetting back patios but puddles
on landing. 8:58 am = 51°F overcast.
calm. 9:10 am light sprinkle. 9:28 new
light rain, 51°F. The light rain stopped
about 11:30; 12:42 still overcast, tho a few
thin patches of blue far off to W. no sun.
The bird activity specially high for Plain
tit, mouse, chickadees & Townsend
warbler! during rain & after. 2:02 pm
Fox Sq. from oak to Pittos with acorn -
also at this time 2 others to perch =
1 a small dark aggressive! and a lighter
smaller one with very shaggy pelage.
how many are - there? at least 3.
2:40 new 90% broken cloud cover - low
cumulus from N; higher cumulus from S!
No sun.

15 Nov clear, cool, calm 11:20 am 55°F
little bird activity, no doves.

16 Nov overall cloud cover of high thin
cirrus & many other lower types. 8:50 = 56°F
a variable wind; from N! 9:13 big Fox Sq
from oak to Pittos with acorn. 3:00 lower-
ing overcast. = 60°F.

17 Nov. hazy clear, calm 9 am = 49°F. 11:39
same; 58°F; band of cirrus, etc. to W. 12:30 =
59°F in shade; the ~~low~~ bands of clouds appra-
ching from W, a few feathery cirrus almost overhead.
1:30 thin cirrus now overhead, shadows getting soft.



Christman
1990

Journal

185

17 Nov., Lellade St., Berkeley, Alameda Co., Cal.
3:23 huge sweeps of cirrus, N-S, diffuse
sun.

18 Nov. 7ag to noon \pm scattered clouds; 90%
clear at 4:30 pm = 57°F.

19 Nov. 10 am = 55°F fog, cirrus & cumulus
~~clouds~~ cover almost clear to complete cover.
noon - now cloud cover cumulo-minimus.

2:23 pm raining! doves, towhees, J & finches
are feeding. Stopped light rain at 3 pm a few
holes in clouds to W.

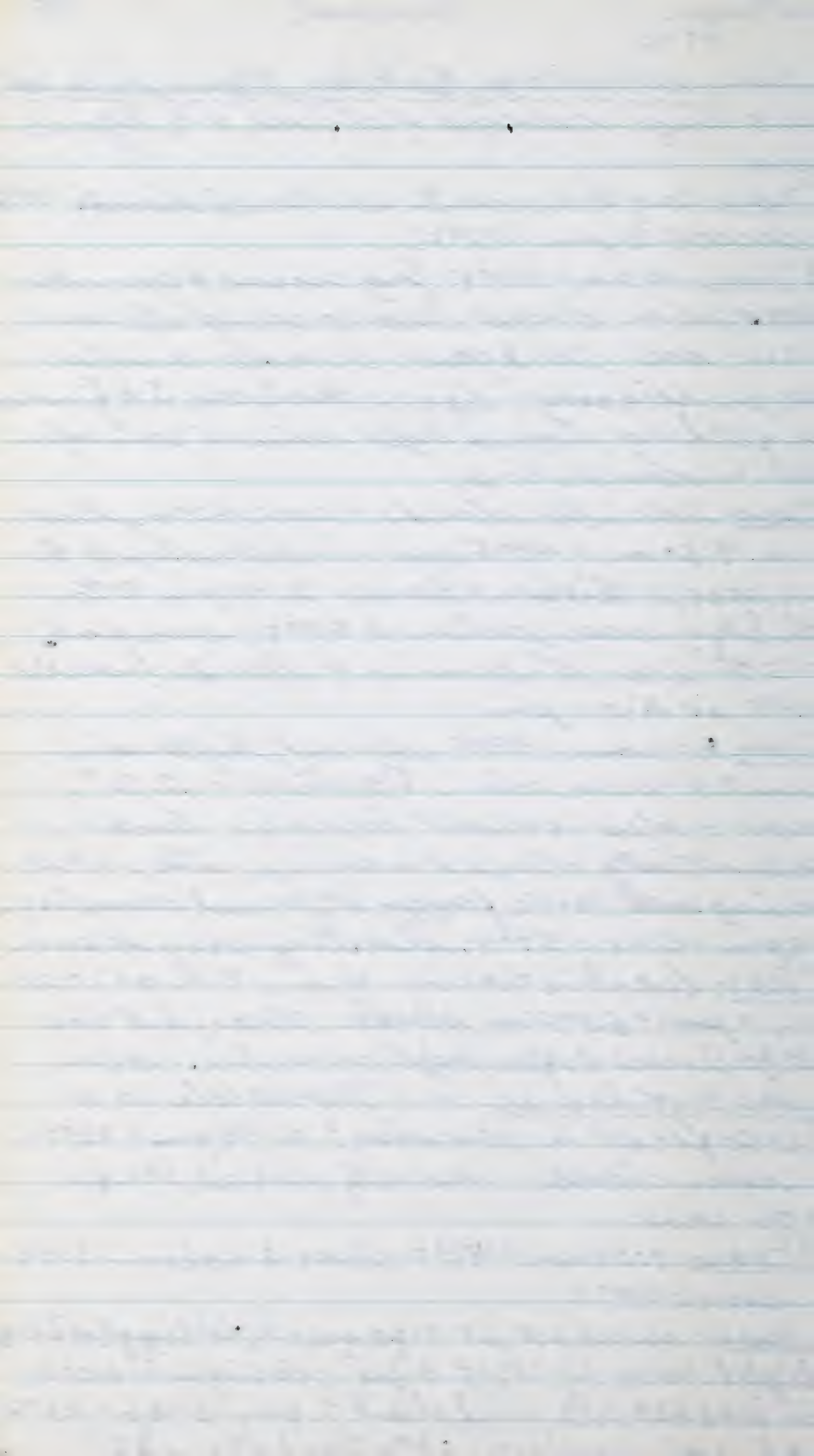
20 Nov variable clouds 9 am = 47°F, dull
sun. 9:30 am = 49°F now almost calm & the
overcast is thicker & darker. 2:50 pm 90%
high hazy cover, calm & 59°F, sun out.
50 \pm % clear, streamers of clouds from NW
54°F at 4:07 pm

21 Nov. 8:16 am = 49°F overcast, light rain
from \pm 4-6 am. calm. Rainfall = .12".
noon - a few small breaks but
essentially closed cover, etc. 1 P.M.
clearing with $\frac{1}{3}$ - $\frac{1}{2}$ fuzzy ill formed cumulus.
4:18 pm clear = 57°F. slanting ray of sun.

23 Nov. back in town from P.A. at 11:20
am. 1 pm = 63°F in shade. Clear, but for
- 1000 cirrus & a few high cumulus. calm
 $\frac{1}{2}$ mi S of house = 1 Monarch to N -
this is first in weeks! 2:45 pm = 82°F
in sun. clouds - mainly cirrus large
20% cover.

24 Nov 9:07 am = 47°F clear & calm, 3:08
in sun = 78°F.

25 Nov overcast at 7:30 am; light drizzle at 9:45
& light rain by 10:15 & "fog" closing in = 52°F.
Rain increase with wind about 2 pm, 2:45 pm = 53°F
good rain now. [4:31 = 48°F. Rainfall = .32"]



Christman
1990

Journal

186

25 Nov del Norte St. Berkeley, Alameda Co., Calif.
break in clouds & streaks of blue tow.

26 Nov clear, calm, cool 8:48 am = 41°F. 12:36
pm clear, occasional gusts of wind = 52°F
4:17 in sun = 55°F clear

27 Nov clear, calm 10:37 am = 47°F (42° at 7:45)

28 Nov clear, brisk E wind, haze far to W
8:43 am = 46°F. 9:20 now the haze to W is
approaching as cirrus & now rather
calm. 10:20 almost all W. sector now
overcast - thin. Hardly any bird activity
so far today. 12:18 now more discrete
feathery cirrus & 53°F. 4:55 hazy overcast.

29 Nov. variable cirrus/cumulus, calm
hazy sun 10:45 am = 50°F. (46°F at 9 a.m.)

30 Nov hazy clear, 8:51 am = 45°F. clear ^{all} day

1 Dec 10:20 am = 50°F clear, calm, earlier
a band of small cirrus to S. (1/4 thin cover).
no bird activity. Sunny, at 3:30 pm 74°F
in sun, high 50's in back yard, etc.

2 Dec clear at 8 am. At 9:21 a few whiffs of
cirrus, 45°F calm

3 Dec hazy overcast 8:50 am = 46°F calm.

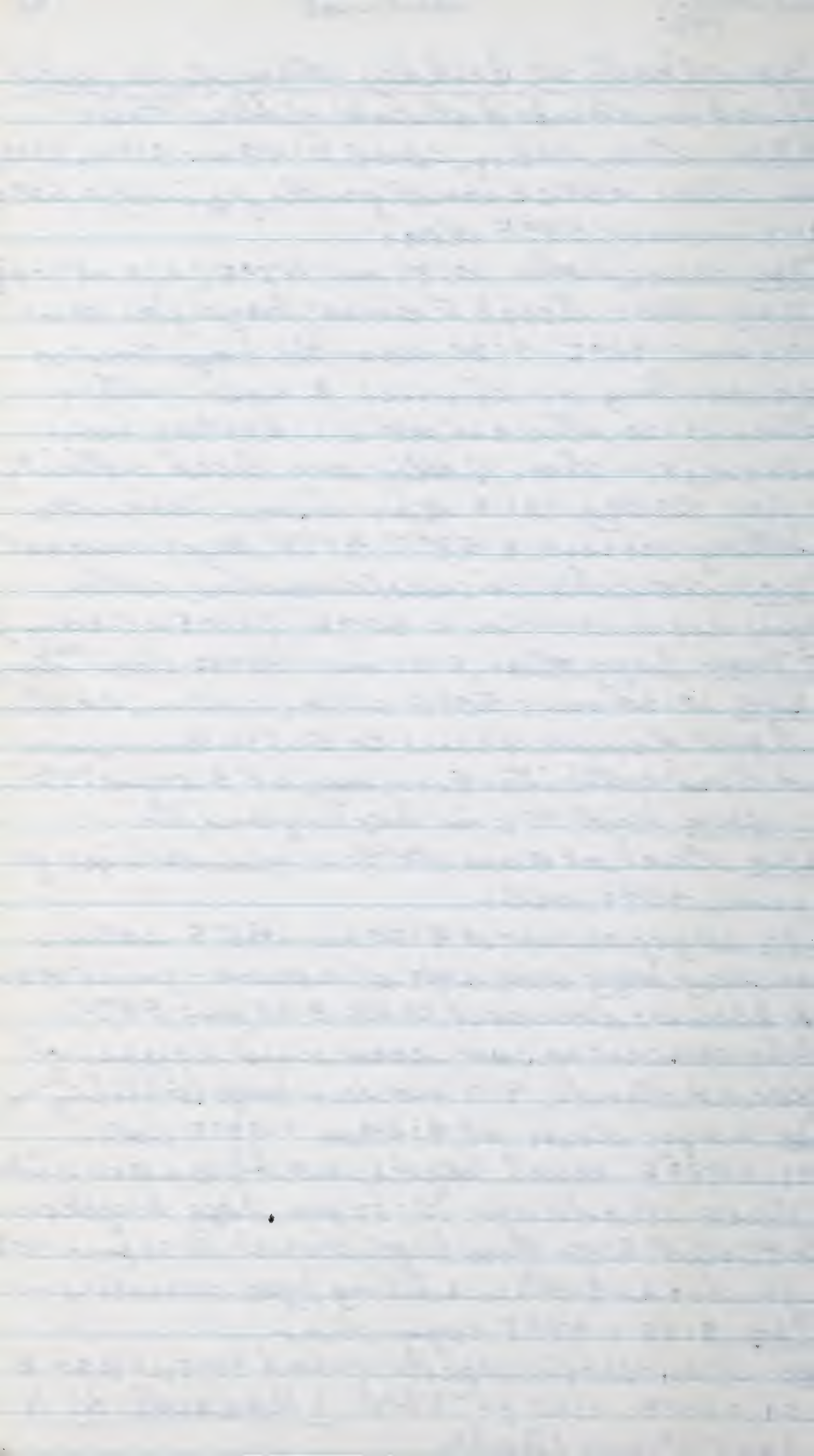
11 am very hazy sun, soft shadows - first of a.m.
but heavier overcast to W. 3:55 pm = 53°F
patchy overcast, no sun, some wind layers of
different clouds. 4:17 no sun huge whirling ^{cirrus}

4 Dec hazy clear at 8:59 am = 43°F calm.

10:47 = 48°F much hazier, no blue now with
diffuse shadows. 12:52 pm hazy bright sun
but still 80% thin high cirrus. 4:36 pm = 50°F
high cirrus & rather rolling type cumulus -

5 Dec 8:35 = 43°F hazy clear

6 Dec clear, occasional gusts of wind 50°F at 8:30 &
10:29 = 54°F. 1:00 pm = 58°F 1 Monarch to N
in fast strong flight.



Wristman
1990

Journal

187

Dec. 7, del Norte St., Berkeley, Alameda Co., Calif.
clear but bands of clouds to W & N, 8:35 - 44°F
10:35 am narrow band of high cumulus bands
from W overcast overhead ragged edge
diffuse shadows = 54°F.

9 Dec. hazy clear all day with variable
clouds W-N. at 4:27 = 59°F heavier clouds to W.

10 Dec light rain 5-6 am. 9:20 am = 53°F with
cloud cover; streets wet. 11:50 very light
rain starting again. 1:18 pm now a low fog.
light rain drizzle. = 51°F. Since 2:30 it
has developed into a moderate soaking
rain at 48°F. at 4:45 pm it had rained
.48". continued light into early a.m.

11 Dec clouds - fog no rain at 8:35 = 47°F
& since yesterday. 4:45 rain = .30".

10:29 am first sun but still clouded in here

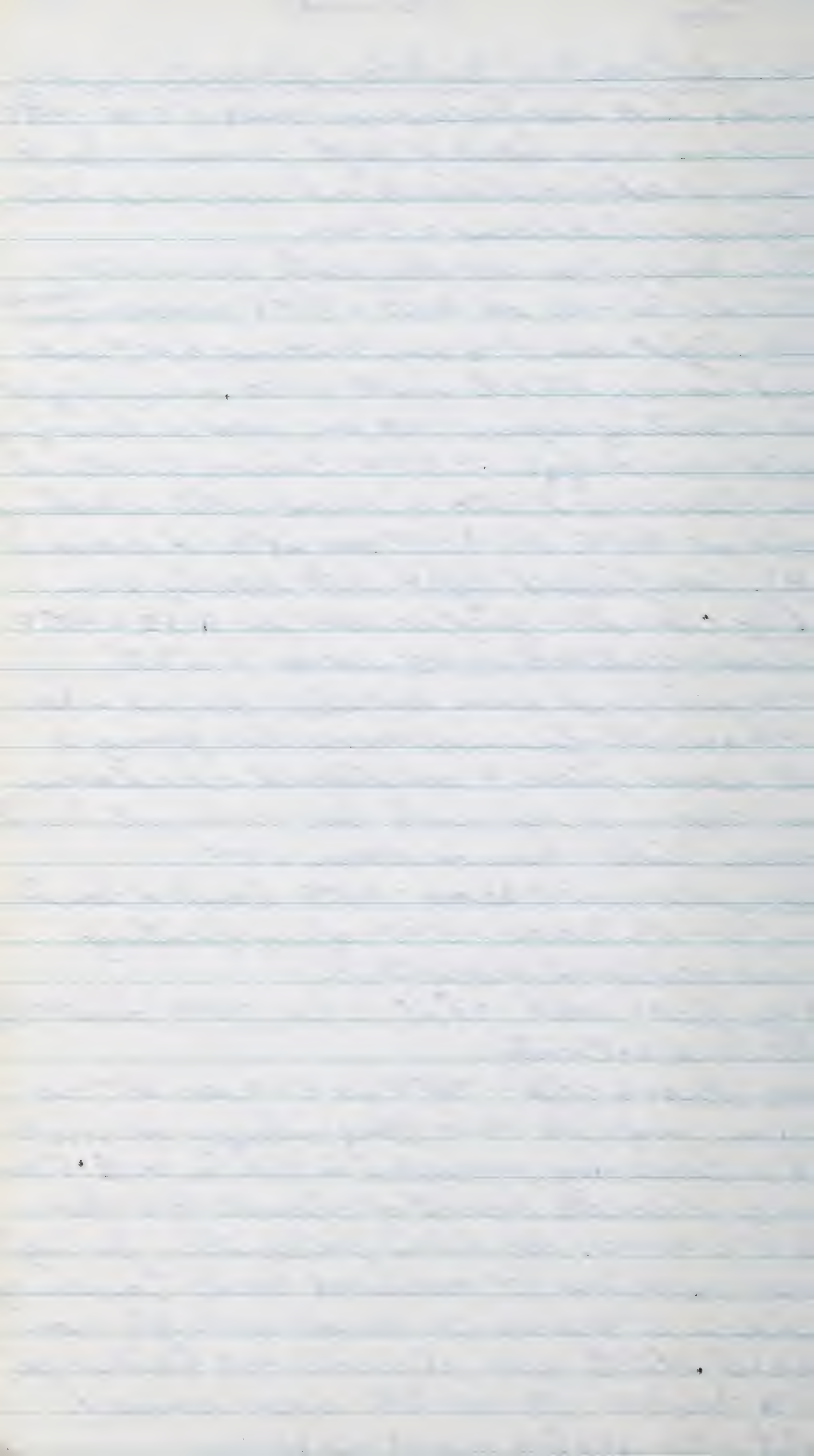
11:44 am ill-formed cumulus going S
with some blue & indistinct shadows.

2 pm clearing up with tall cumuli behind
ingress hills 3 pm in sun - 69°F.

12 Dec. clear, at 9:30 am = 46°F bands of clouds
to W (S-N). Noon = 51°F few feathery
cirrus overhead more to W.

13 Dec clear cold, 50° at 12:30 (43°F about 9:30)
little bird activity

14 Dec clear & cold - 36°F at 8:18 am. at 7:30
faint on roofs, etc. 8:40 long wispy cirrus to
W & a towering cumulus in Marin Co. 10:57 am
now a discrete band of clouds to W from
S to N = 44°F. no bird activity. The high
cirro-nimbus 60° overhead to W. Towering
clouds in N. Marin Co. twice as high now
against white pale arc circle. 4:18 fairly clear
- 60% thick W. little ones to N. near sunset.
Light rain started about 12:30 am



Christmas
1990

Journal

1988

15 Dec, ~~del Norte St, Berkeley, Alameda Co, CA~~
— rain off & on until about 8:30 am.

9:53 = 43°F broken clouds. 11 am very
light sprinkles low clouds = 44°F.

11:30 am rainfall = .69" (since yesterday)

12:23 pm sun out & blue off to W. 2:21 pm
a little sun, a few showers & a bit of blue
among the clouds hurrying N. 5:13 almost
dark heavy clouds W & N. = 41°F. Rain at 7:30 pm.

16 Dec. rain until perhaps midnight. A.M.
clear, cold (8:15 was 39°F) calm. 10:13 = 44°F
Rainfall = .46". Clear all day

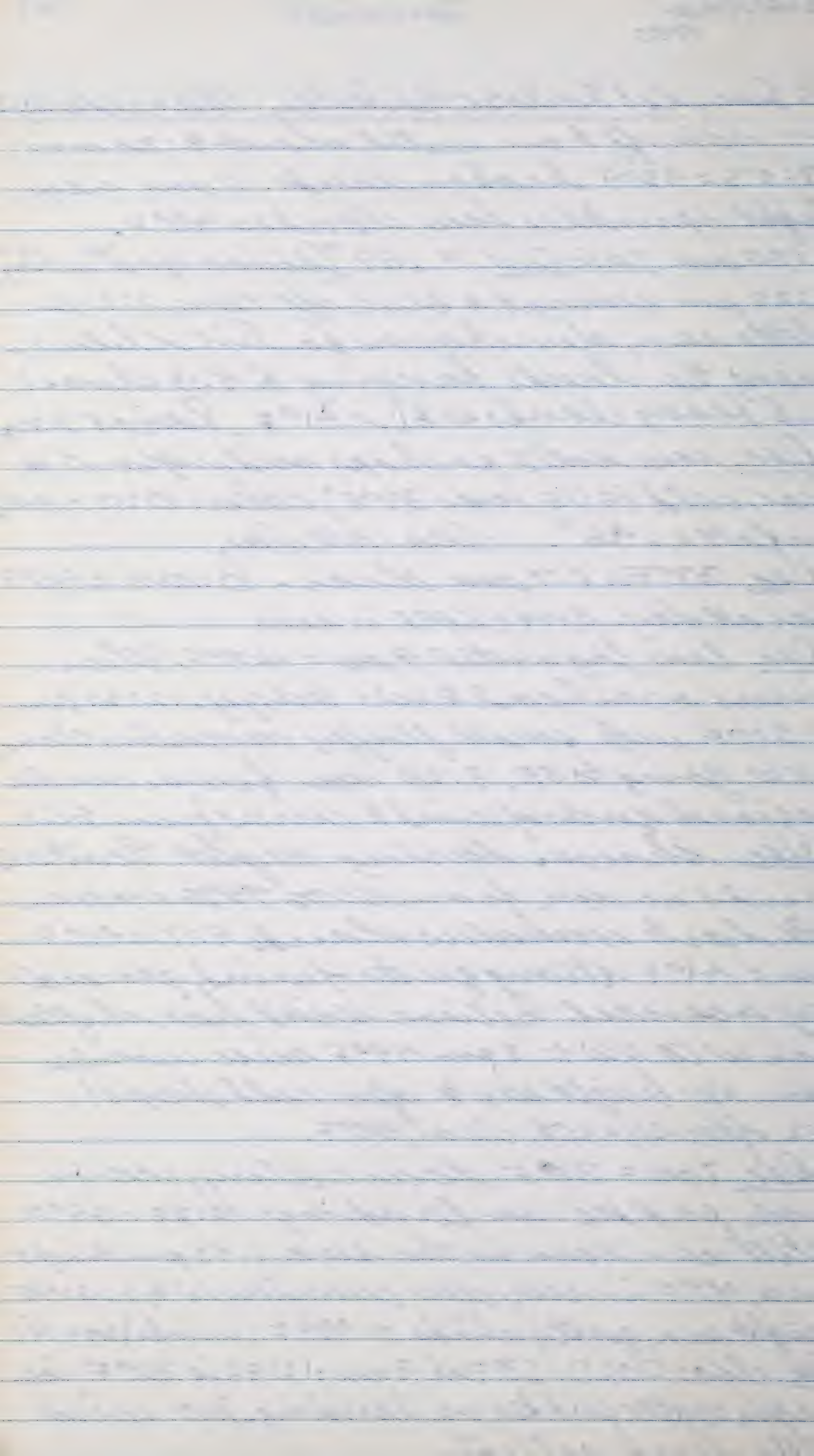
17 Dec 37°F at 7 am clear - 10:am = 45°F
clear all day. 3:44 = 66°F in sun

18 Dec low fog until 9 am = 40°F. Thin
cirrus overhead & W - W. 12:30 pm
= 51°F with small fluffy cumulus clouds
to NW going to SE. 3:30 now fewer cumulus
occasional gusts of wind & cirrus from SW.

19 Dec shower during night. Scattered
clouds in am. from 50% to 75% cover
with dark cumulus clouds 9:17 = 41°F
10 am = 41°F strong gusts of wind, general
gray overcast. Believe wind has shifted
from W to NW. 3 pm 44°F misc. cumulus
from NW bright sun & a few cold drops!
4:52 after sunset, clear, 38°F.

20 Dec 7 am = 31°F clear calm; ice on
rain puddle on landing. 10:28 = 35°F
still ice - even in the sun. 1:43 pm bright
sun, 40°F in sun, a few cumulus W & S. 3:45
bright sun, gusty winds = 47°F (winds from N)

21 Dec clear COLD. 23°F at 8 am; 11:48 is 32°F ice
in rain water puddles on landing. No wind
little bird activity



Christman
1990

Journal

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21 Dec. del Norte St., Berkeley, Alameda Co CA
Noon - cold weather: few birds have
been about. I took jay to ledge over
1 chickadee high in elms in bright sun
& into D-4 feed. No H. finches as yet.
yet. 1 dove in NW elm! No birds on high
perches. Freezing at noon! 1:11 pm saw
several house finches, jay again - no doves
about. = 36°F.

22 Dec. clear, calm & cold 20°F at 9:30 am
32°F at 1 pm. Outside in sun = 50°F at 3:28
but still ice. 7:28 pm = 28°F

23 Dec clear 25° at 8 am & 29°F at 9:35 am with
gusty NE winds. 4:26 pm bright sun, etc.
gusts of wind - 35°F.

24 Dec 32° at 9:30 clear calm, slight E wind
a bit warmer today - 43°F outside at 1 pm.
The temperatures in kitchen patio 5-10°
warmer than outside up stairs. Jade
plants & many other outside plants were
burned pretty badly by the frost.

26 Dec. home from Palo Alto 12:15 pm clear
cold 65°F at 3 pm in sun. house cold. Doves

27 Dec clear cool calm all day but a few to W.

28 Dec clear except for a few small cumulus
from NW at 10 am = 43°F, 3:58 pm = 57°F

clear, only occasional cumuli to W.

29 Dec clear, 37°F at 9:40 am calm. This
period of record cold has killed back
exotic plants to as yet an unknown
extent. On top of a 4 yr. drought
the natural ecosystems have been hurt
probably, but in the artificial urban/
suburban areas could be severely
set back. The local bird populations

Christman
1990-91

Journal

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29 Dec., ~~dd Route 51, Berkeley, Alameda Co., Calif.~~
have been affected by the drought. The
cold weather will not be ~~un~~ ^{un} ~~interesting~~
for awhile 1:22 pm = 48°F occasional gusts
of wind, still clear, bright sun.

30 Dec clear, cold 46°F at 1:27 pm.

31 Dec same; 9:54 am = 40°F hazy on edges,
breezy last night. For 1 hr. to 10:40 am only
bird activity was 1 dove on line at circle!
The high barometric pressure reduces
"bird activity". 12:49 pm = 51°F same; more
new light, now. 3:30 pm sunny 64°F outside.
More birds now H. finches, chickadees, 1 Kinglet
7+ doves.

1 Jan 91 a few high feathery cirrus to W & N,
to S (E to W) an overcast of high cirrus
at 10 am = 39°F, first clouds in, like 2 weeks.
10:58 am There is much more bird activity
this a.m. than yesterday & other a.m. lately
3:38 pm = 59°F in sun variable cirrus all day.

2 Jan variable levels of high, etc cirrus
from S. 9:30 = 40°F, 11 a.m. = 47°F. 12:24 dull
sun, hazy cirrus, diffuse shadows & 52°F.
2:53 pm sun out but almost completely overcast
to W (N to S). 3:22 overcast, no sun - 6
gulls flew W to E rather low for gulls -
in fact, more in last week. 4:18 = 50°F ^{overcast} outside.

3 Jan overcast, 8:46 am = 45°F calm.

4 pm = still overcast, now higher & layered, = 50°F

4 Jan clear, 9:30 am = 42°F calm hours
of clouds far to W. Upon = 49°F outside, also
saw in top of W sky what may have been
a goldfinch - didn't see bill, upright, not
a warbler type. 3:30 = 61°F in sun, now hazy with
very high, thin billowy cirrus. Fog hours during night

Christman
1991

Journal

191.

5 Jan., del Norte St., Berkeley, Alameda Co., Cal
9:42: 39°F hazy clear, fog to W. 2:33 pm
= 52°F in sun. bright hazy sun with
more definite feathery cirrus from SW,
slight breeze.

6 Jan. hazy fog - clouds 9 am = 40°F 9:55
am dull sun out. 3:40 = 53°F sun out
thin clouds overhead same blue & bands of
cirrus S-N to the W. 3:58 pm now overcast
completely. a Fox Sq. went into a nest in top
of oak on S. side.

7 Jan. light rain in morning to 7:30 +. 50°F
at 10:25 am. Noon (13") of rain ^{all pm} overcast

8 Jan 45°F at 9:30 am windy with scattered
clouds. 11:30 dull overcast - thin (a few
dull blue holes) = 51°F. For an hr & a half
no one in the oak. Overcast but no bird
activity. 2:29 ± 50% clear = 52°F.

9 Jan rain after mid-night. light. almost
clear at 9 am. 10:02 a few cumulus & low
fog over hills. 50% blue. = 47°F. 10:16 pm
now fog & occasional breezes. Rain fall last
night (34") at noon. 3:07 overcast (? fog)
& 52°F no breeze.

10 Jan clear except for low hazy fog to W
at 9:23 am = 44°F 12:13 pm = 51°F wisps of
high disorganized fog off & on all am. 2:26 pm
variable thin cumulus to S = 57°F. 2:45 again
bright sun - nearly clear.

11 Jan. Fog opened up about 10 am & now
scattered cirrus & few cumulus 10:15 = 49°F
11:30 am overcast has closed in, no sun, no blue.
no bird activity. 2 pm overcast - several
planes over low which means S wind. Many
of the exposed leaves of Pittos are dead.

Christman
1991

Journal

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11 Jan., del Norte St., Berkeley, Alameda Co., CA
4:19 no doves, 1 robin in w elm, chickadee
a towhee. a storm is approaching.

12 Jan Fog. a trace of rain last night
— enough to wet street, car & leaves.
9:20 = 50°F. 10:49 am fog lower, mirky
= 53°F 4:27 pm = 56°F opening up 1/3 blue
not high & fog. calm.

13 Jan Sunday up to 9:15 heavy low fog — could
hardly see utility pole around then cleared
80% then fog again & spotty fog to late
afternoon (4:04 = 63°F in bright sun) with
filing cirrus & small cumulus.

14 Jan Fog; at 10:23 = 53°F bright, showers
seen now, no blue. 10:47 most of fog cleared
except to W. High cirrus S to N. little bird
activity. 1:45 pm = 57°F basically clear with
small clumps of fog — no doves or pigeons,
H.F. or J's. 2:14 pm = clear, calm = high pressure
system?

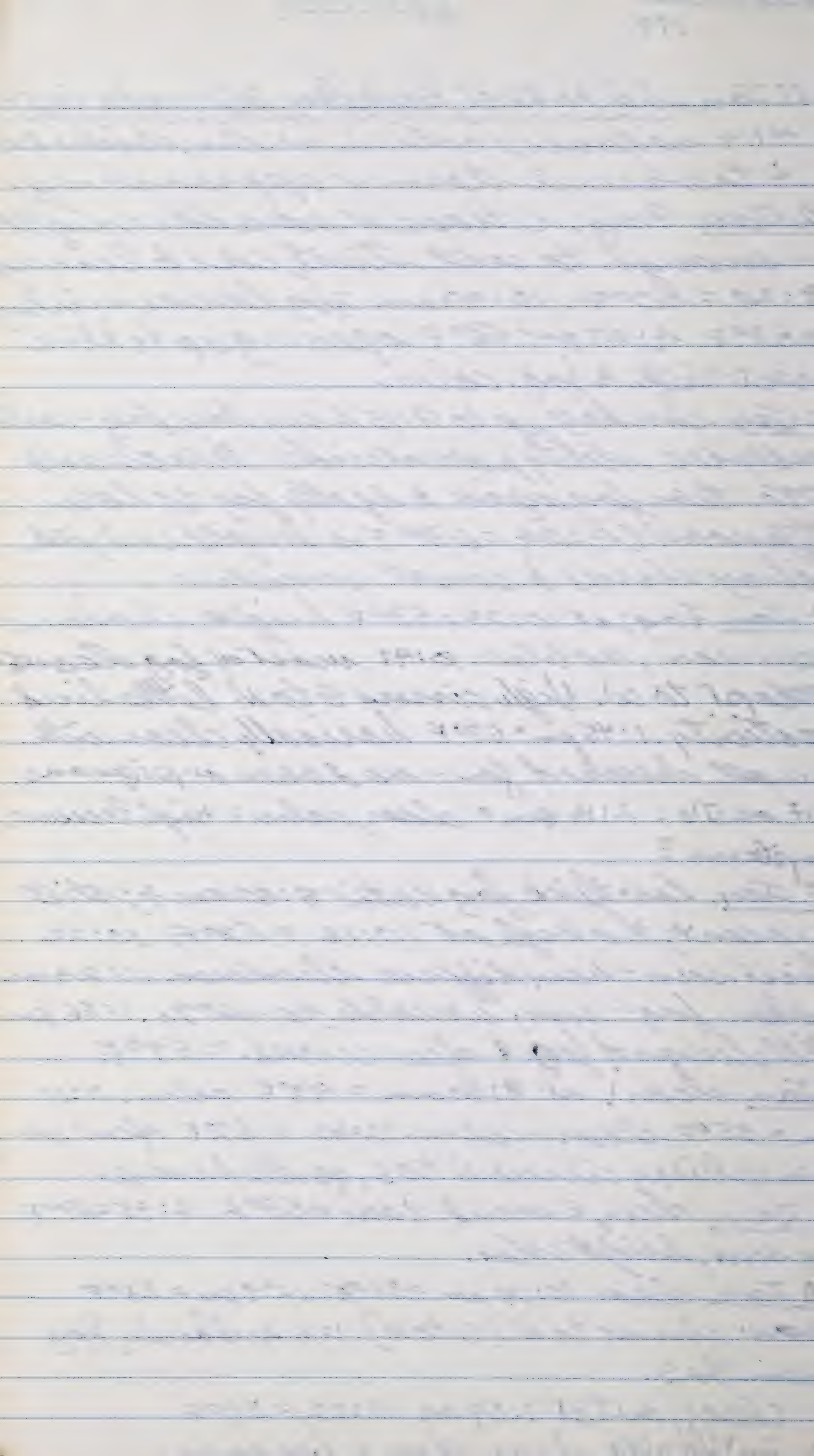
15 Jan. Low thick fog until 8:30 am +; still
present, tho high at 10:16 = 52°F. 10:22
first sun — heavy diffuse showers. 11:24 am
broken fog — sun, variable, 40-60%. 1:36 pm
still clumps of fog & a few cirrus. = 59°F.

16 Jan clear! at 8:30 am = 49°F calm. 11:11
am = 55°F clear — calm. 12:40 = 62°F few very
thin wispy cirrus N to S, gentle breeze.

17 Jan clear, E wind 9 am = 55°F 2:45 = 69°F
in sun, bright calm.

18 Jan clear 10:39 am = 51°F 1:09 pm = 55°F
now cirrus to W (S to N) 1:16 suddenly fog
from the S.

19 clear, out at 7:59 am 10:22 = 50°F.
20 in Palo Alto clear a few E breezes



Christman
1991

Journal

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21 Jan, El Monte St, Berkeley, Alameda Co, CA
clear, lots of wind last night. 9:30 a.m.
= 51°F. 10:22 a.m. light breeze, high strong
pressure - now: several laves in elms;
no chickadees, H. finches at tan-hills.
very little activity.

22 Jan clear 9 a.m. = 42°F 10:18 a.m. Fox Sq.
in top 5' of W elm eating elm buds.

2:27 p.m. = 57°F few high feathery cirrus to N
3:40 = 68°F more cirrus.

23 Jan clear, 8:36 = 39°F Fox Sq. high in
up 25. elm feeding on buds. 11 a.m. have
been watching since 8:30 little activity
no one to feeders! Laves (4) in NW elm,
few robins & waxwings & 1 hawk & 1 pigeon
calm & clear. No one in oak yet.

1:14 = 57°F 1:44 1 kinglet in oak - first
bird seen in oak today. where are the
warblers. 2:30 filing haze off to W

3:09 = 70°F in sun. 4:22 = 59°F more
hands of high cirrus to W.

24 Jan 7 a.m. = 41°F clear with fog bands to W

11:19 clear a bit hazy = 51°F. 2:21 = 55°F getting
hazy, tho still bright 5:25 dusk, haze no activity

25 Jan FOG (some clearing at 9:30) 11 a.m. = 48°F
hazy clear all day

26 Jan 38°F at 8 a.m. clear; 9:30 dull small
cirrus & cumulus SW to NW. Sunny. = 43°F
Rather clear most of day, cool = 4:53 = 50°F with
a huge raft of feathery cirrus to SW.

27 Jan dense fog with few holes. 9:55 = 45°F
hazy sun. 2:52 Fox Sq. way out at end of a
vertical limb of elm across St. eating buds - still
lots of fog & 53°F outside in sun.

28 Jan scattered fog, 8:42 = 45°F, 9-1/2 blue

[Faint, illegible handwriting on lined paper]

Christman
1991

Journal

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28 Jan., del Norte St, Berkeley, Alameda Co., Cal
11:53 almost clear, = 50°F.

29 Jan 7:30 = 33°F frost & dew about
edges, 8:36 = 38°F. Clear (at 7 hank off fog
to W narrow gone). 9:22 calm, = 43°F. 1:33 = 54°F
calm. 4:30 = 59°F in sun clear calm.

30 Jan clear with some high cirrus, at
8:20 = 37°F - some frost about roofs &
shady lawns. 2 Fox Sq. in ivy on top of
utility pole across the st. They were there
yesterday - at least 1 jumped to lower
branches of W elm to & from pole. Very
little bird activity NO towhees, finches,
chickadees or bush-tits yet. no jays
12:45 hazy sun. more thin cirrus. 1:08 it
is back in cypress. I was out - drove
past the circular "island" at the circle
there is a 3' high pyracantha - so
perhaps a robin was at the berries?
1:14 - still there. 1:15 it's gone. still hunting
in an urban-residential area. 2 PM = 58°F
(not in sun) No birds about - did that
red-tail have that much effect? Or is the
high pressure making E. ? 3:22 has become
a dull high overcast - still 58°F 3:45 ± I jumped
to "ivy-pole" across st. from NW elm. Another in
NW elm & 1 in W elm - so 3.

31 Jan cloudy overcast, calm 40°F at 7:30
am. 10 am = 47°F dull overcast. 11:11 = 53°F still
overcast, but now a dull sun - diffuse shadows
1:54 = 52°F still overcast. 2:29 1 Fox Sq. in elms &
another seems to be building a nest in ivy
on pole across st. carrying leaves to SE side
of pole, 3' from top. 1 on landing here. 3:22 = 65°F
in sun; hazy clear to W, clouds N & E, 3:51 Clear!

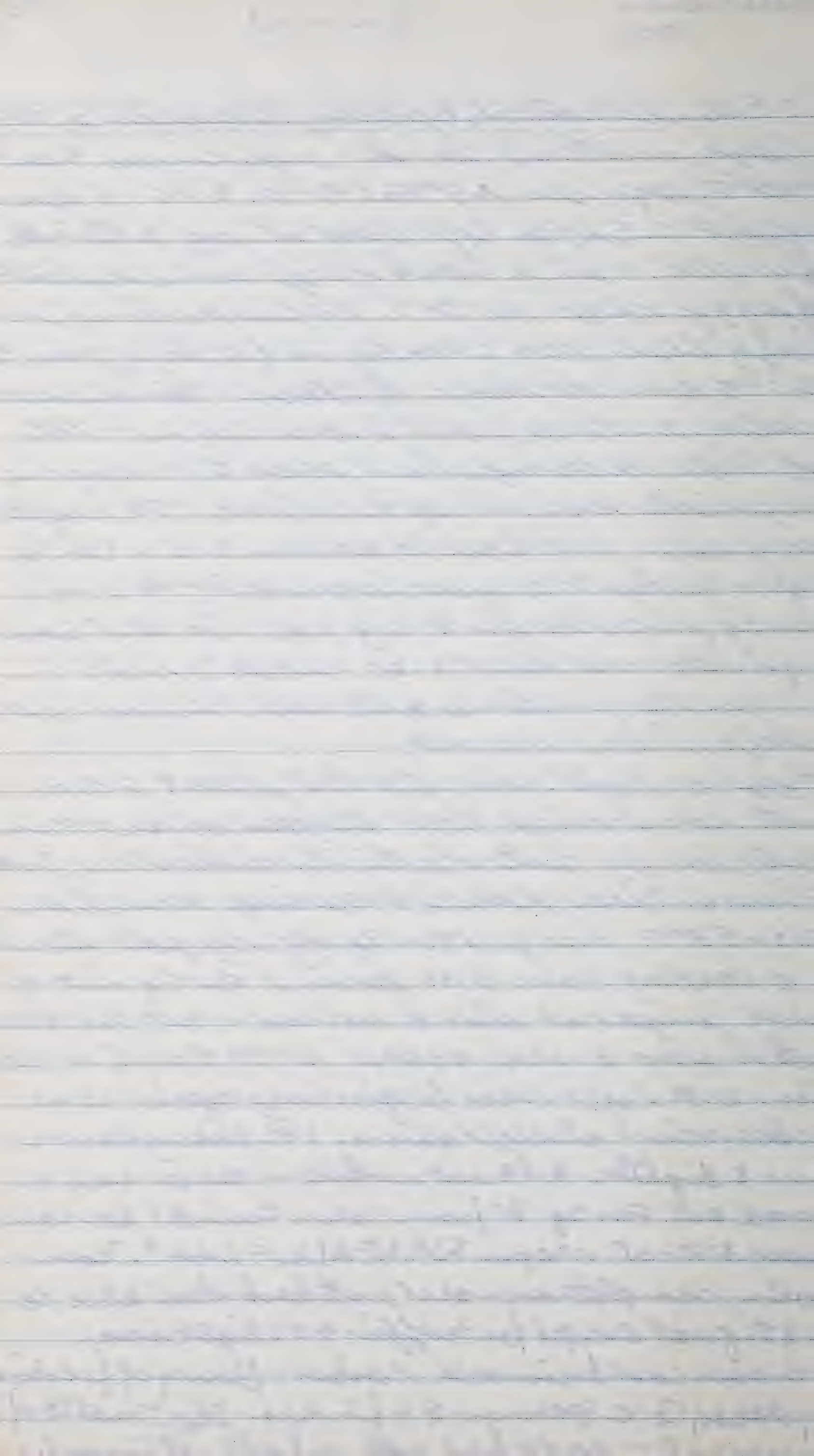
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1991

Journal

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1 Feb., Del Norte St., Berkeley, Alameda Co., Cal
Hazy, scattered clouds - high cirrus 8 am =
40°F, hazy sun at 5°F at 9:40. 9:45 - 5 min.
apart 2 Fox Sq. left nest at icy pole into
NW elm. 11 am a bank of high advection with
fuzzy edge NW to S. approaching, rest
hazy blue. 11:04 2 Fox Sq. in feeding; now 3.
12:45 now no more glaucous - thin overcast
calm. a storm front is coming in - lots
of birds moving about even T-t. Hawks,
especially warblers & robins. 1:54 bright
sun now. 2:05 back to no sun. 3:12 2 Fox Sq
high in NW elm. 3:23 more layers of clouds 3:49 1
Fox Sq jumped NW elm to icy pole into nest. Saw
1 go into nest about 3:30 - early to bed?
3:58 another jumped over & into nest! Perhaps just
1 left while I was out.

2 Feb a light rain started about 2 am.
with some wind. Rain stopped about 9 am
still cloudy. Lots of activity chickadees, funds
robins in trees, doves & warblers all ahead
9:53 = 53°F. 10:25 first Fox Sq. off icy pole into elm
in a landing now. 10:33 second Fox Sq out of
nest jumped at elm & missed - hit the street
with a plop & ran across st to trunk of NW
elm. 10:39 light rain beginning again. 10:41
harder rain - straight down. 1:32 heavy down
rain & lighter. 3:08 out awhile - there was a
road kill Fox Sq 3' from elm trunk! No rain
now. 3:50 - at 1:30 pm RAINFALL = 1.44". Now
calm, complete overcast with dark steel blue to
W & S. quiet except for traffic. 4:07 light rain.
4:12 overcast becoming darker - flurry of feeding
by doves, G-C sparrows & H. finches. The motto of
survived - go to bed with a full stomach.



Quistman
1991

Journal

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3 Feb, del Norte St, Berkeley, Alameda Co, CA
overcast, no sun. 10:25 = 59°F. 10:46 am
dull overcast with some sun. 10:53 some
breaks in clouds with 25% blue. 12:13 pm
breaks in clouds, blue & strings of cumulus
ill-formed. 2 pm - almost clear. 3:27
pm 72° in sun! a cool day tho.

4 Feb hazy fog, clear overhead calm = 50°F
at 8:39 am. 9:30 complete dull overcast. 51°F.
9:43 overcast with banks of lower darker
clouds N-S to W. 9:50 dull sun, diffuse shadows.
12:30 pm hazy, overcast is lower. 1:28
pm put 1/2 a box of rock salt under P. tosporeum
near fence line in front yard (N). if it
rains to night it should melt in & kill the
SOB's. 3 pm was getting darker & suddenly
huge cold wet draps, now general down
pour!

5 Feb scattered cumulus type clouds - clearing
at 8:16 = 51°F. RAINFALL = 1.13" 9 am was
clouds now 11:26 am = 56°F, sunny with lots
of white fluffy cumuli. 12 pm no sun, almost
complete cumulus cover, darker, well formed.
5:30 just about clear, at sundown = 54°F

6 Feb at 8 low dense fog, by 8:30 lifted over-
head with long strands of cirrus, then
fog came back & 9:37 = 45°F. 10:03 now
blue & sun, fog to W, cirrus over head.
12:22 = 53°F hazy sun & fog, more cirrus.

3:49 1 Foxg. in my ar pale, another thin tree
jumped to top of pole - 1 dead other day -
a quick replacement. 5:24 = 56°F sundown
great thin cirrus SE to NW, windy.

7 Feb clear & windy at 7 am 9 am = 53°F few
cirrus, calm now. The small plum(?) N
of ranch is, this week, in pink buds & flowers

Christman
1991

Journal

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1 Feb ~~at Hart St, Berkeley, Alameda Co., Calif~~
12:25 pm almost no activity so far, no doves
no tanagers only few robins early.
2 small waxwing flocks seen. HLG+1

Pressure The cirrus over head going
away to general haze to low when saw
3 pm 78°F in sun lots of cirrus, bright sun,
little haze.

8 Feb 8 a.m. fog lifting, 8:30 opened up some-
what with 1/2 high cirrus, then shut down
again in fairly dense low fog - 9:41: 49°F.
noon: 54°F hazy clear. 5:57: 49°F high fog.

9 Feb 7 fog. 8:52: 46°F calm. 10:45 fog
lifting & sun out. 1:10 = 57°F in shade - a
morning clover butterfly - flew by fast
then landed in sun on Pittos briefly.

3:02 pm in sun = 69°F, bit hazy, exp. w, 1 cirrus
4:09 in sun = 68°F, more haze & cirrus tow.

10 Feb 7 fog, no clearing; 10:19 am = 49°F. 11:49
am. lightening up a bit - the vaguest shadows
= 57°F. 12:24 hazy clear, cirrus over head &
haze tow. dull shadows. cumulus clouds
in after 3:45 pm complete clear by 5 = 56°F.

11 Feb 7:15 fog; 8 a.m. = 48°F fog lifted over
head, a few cirrus. 10:15 clear with very minor
cirrus = 52°F ant side. 11 am = 56°F little activity
2:17 in shade = 61°F bright sun; cirrus far to w.
3:48 = 67°F in sun, bright, beautiful, but low fog ^{creeping in}.
5:54 clear except for extensive cirrus f. w.

12 Feb 7 fog, 8:26 am = 46°F. 9:58 first dull
sun & soft shadows & patches of blue.
10:41 hazy blue sky = 53°F 2:40 = 62°F sun way
- bright but with 50% thin cirrus cover.

13 Feb clear except a few feathery cirrus 8:37 = 49°F.
11:30 more thin cirrus, sunny = 61°F 2:25 = 72°F in shade

[The text on this page is extremely faint and illegible, appearing as light grey smudges and lines across the page.]

Christman
1991

Journal

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- 13 Feb, all route st. Berkeley, Alameda Co., Calif.
sunny, cirrus to W, occasional breeze. 5:37 =
sun about dawn clear, few clear cirrus = 66°F
Very little bird activity - 1 robin 1 flicker
- 14 Feb clear except for few cirrus. 8 am 48°F
2:45 = 74°F almost solid cirrus overhead
the still sharp shadows.
- 15 Feb hazy fog with high clouds 8:42 am - 56°F
no dew this a.m. 9:45 no shadows yet. 11:29
overcast duller with very diffuse shadows.
2:23 dull overcast, but now sunny & good
shadows = 64°F, 3:26 no sun dull = 60°F
- 16 Feb 9 am = 48°F clear, calm & few cumuli
to SE over hills. 2:21 = 59°F in shade,
clear & bright except for few wispy cirrus.
cirrus moving S = high pressure 3 pm = 64°F
3:45 = 65°F and now 80% of my view is cirrus
overcast from N.
- 17 Feb 8:58 am = 49°F clear, few cirrus. calm
12:21 breezy, cumuli papping up & disapp-
earing = 57°F. 3 pm sunny = 72°F ^{cirrus} filmy to W.
4:20 clear, slight breeze 67°F.
- 18 Feb clear except for few cirrus 8:28 = 48°F
11 am clear - 65°F. 1:40 a bright beautiful
warm day: 62°F in shade. 3:32 in sun 80°F
- 19 Feb 9:45 am = 57°F clear, calm few cirrus.
11:26 am bright clear, calm SPRING LIKE = 60°F
in shade. 3:28 as above = 80°F.
- 20 Feb clear, calm 8:30 am = 50°F. 9:30 am
now hazy - mainly filmy cirrus. = 54°F.
12:30 pm = 64°F very hazy. 2:05 = 72°F haze.
21 Feb overcast, multi layered - 8:51 am = 54°F.
10:12 dull sun with consistent overcast 2 59°F.
2:32 = 57°F getting darker, no shadows, overcast now
a formless gray morning.

1894

The first thing I noticed when I stepped out of the car was the cold. It was a sharp contrast to the warm blanket I had been sitting under. I looked up at the sky, which was a pale, overcast grey. The air was still, and the only sound I could hear was the distant hum of a car engine. I took a deep breath, feeling the cold air fill my lungs. It was a strange sensation, both refreshing and unsettling. I glanced down at my hands, which were tucked into my coat pockets. They felt small and vulnerable in the vast, open space around me. I tried to shake the feeling off, focusing on the task at hand. But the cold seemed to seep into my bones, making it difficult to concentrate. I sighed, knowing that I had to push through it. The journey ahead was long, and I needed to stay alert. I took another deep breath, this time holding it for a moment before letting it out. The cold was still there, but it didn't seem so overwhelming now. I looked up again, and for a brief moment, I saw a glimmer of light in the distance. It was just a small speck, but it gave me a sense of hope. I smiled slightly, feeling a little more at ease. The cold was just a temporary obstacle, and I was determined to overcome it. I took a final deep breath and stepped forward, ready to face whatever came my way.

The first thing I noticed when I stepped out of the car was the cold. It was a sharp contrast to the warm blanket I had been sitting under. I looked up at the sky, which was a pale, overcast grey. The air was still, and the only sound I could hear was the distant hum of a car engine. I took a deep breath, feeling the cold air fill my lungs. It was a strange sensation, both refreshing and unsettling. I glanced down at my hands, which were tucked into my coat pockets. They felt small and vulnerable in the vast, open space around me. I tried to shake the feeling off, focusing on the task at hand. But the cold seemed to seep into my bones, making it difficult to concentrate. I sighed, knowing that I had to push through it. The journey ahead was long, and I needed to stay alert. I took another deep breath, this time holding it for a moment before letting it out. The cold was still there, but it didn't seem so overwhelming now. I looked up again, and for a brief moment, I saw a glimmer of light in the distance. It was just a small speck, but it gave me a sense of hope. I smiled slightly, feeling a little more at ease. The cold was just a temporary obstacle, and I was determined to overcome it. I took a final deep breath and stepped forward, ready to face whatever came my way.

Christman
1991

Journal

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22 Feb, del Norte St, Berkeley, Alameda Co, CA
8 am slightly broken cloud cover - cumulus
= 48°F slow clearing to noon when
practically clear. 2 pm overcast. breezes,
59°F in shade.

23 Feb. Fog to 9 then hazy clear, few cirrus
after 11 am 11:46 = 54°F calm

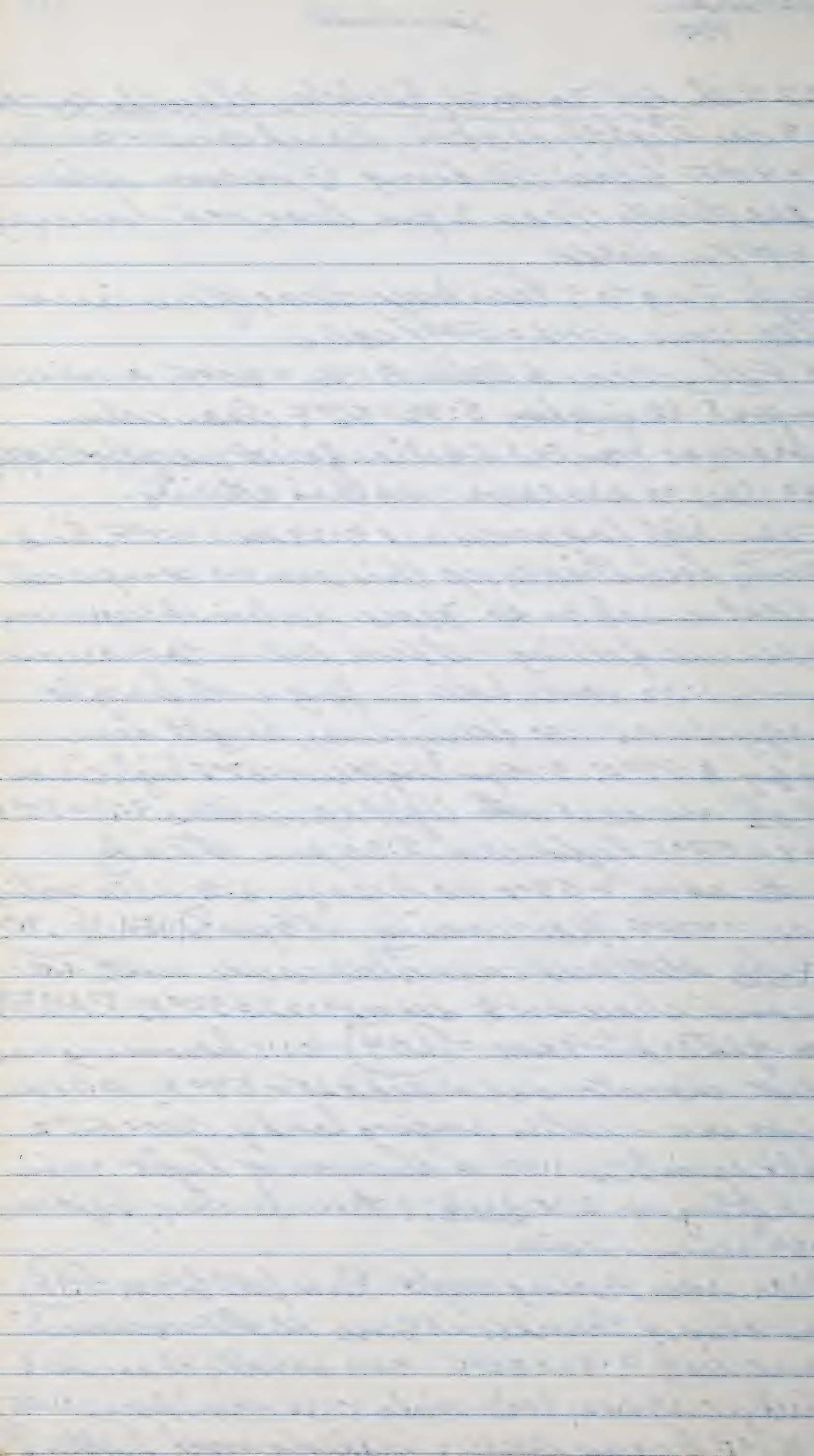
25 Feb. clear & calm 8:46 = 50°F. a nice
almost spring day 5:36 = 56°F clear calm
- breezes from SW earlier. quiet except for traffic.
5:48 close to sun down - no bird activity.

26 Feb. high fog overcast 8:29 am = 47°F. Bird
activity dramatically up this am as compared
to last week or so. More robins & waxwings
pressure falling - storm due in tomorrow
pm. 1:02 some holes in fog with bright
hazy sun. 1:50 fairly clear, bright sun
hazy & 59°F. 3:45 pm bright sun = 67°F high cirrus.

27 Feb overcast with light sprinkles. 9:11 = 52°F
1:07 = 53°F light rain. 3:30 pm steady
gentle rain = 53°F no breeze. 6:31 rain contin-
ues, = 53°F. More coming. at 5 pm RAINFALL = .30

28 Feb. scattered cumulus cover with oc-
casional showers & sun. 9:22 = 55°F. RAINFALL
5 pm yesterd. to 9 am = (1.04) 10:11 becoming more
a dull monotonous overcast = 59°F. 10:21 am
bright sun - robin singing loudly. 12:10 = 56°F
light sprinkles. 1:27 a shower of light rain
1:46 lighting up. 2:25 dark, 1 thunder clap, light rain
2:34 heavier rain.

1 Mar. rain during night Rainfall to 9 am = (.45)
one clap of thunder at 8 am scattered cumuli
some sun 9:51 = 52°F 10 am variable clouds &
windy. 10:23 very dark - windy. 10:26 sprinkles. 10:45
= 51°F heavy rain; suddenly much lighter &



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Journal

200

1 Mar., del Norte St, Berkeley, Alameda Co. CA

12:24 heavy showers. dt passed by 1 p-

3 pm scattered cumuli, windy, same blue.

5:48 hazy cumulus, no rain for 3 hrs = 58°F

Rainfall = (.28) rain light averaging

2 Mar. cloud cover, occasional winds, few
sprinkles 11:16 overcast, no rain. Periodically,

* flights of robins and ~~crow~~ wings - together
& separately - a truly winter

scene and mixed flocks! 1:30 very

gusty winds. 3:30 dull overcast, windy,

huge wet cold sprinkles. 4:17 a wind driven

medium rain; fairly bright & sparkling.

3 Mar Rain & wind most of night = (1.16")

at 9:15 am. Max: 9:44 = 51°F rather calm

with light rain. 11:11 a good consistent

dawn pour. 1 pm have been few brief

heavy showers, still breezy. Now lighter,

on W & S horizons = 56°F. No rain. 1:53 =

have been periodic light showers. 3 pm: 62°F

sun out first; clouds to N. 3:30 1/3 + blue with

high cirrus & lower clumps of fluffy cumulus

to N. broken sky to S. = 64°F. RAINFALL = .35"

4 Mar. Rain & same wind; 9:37 = 54°F. The

rain stopped about 10 am then the locals came

out turkeys, doves, H.F, titm & chickadees

now "average" bird activity. Noon = 60°F

This is a subtropical storm from SW =

RAINFALL = (.50") Now clouds moving S,

2: pm no rain since 10 a.m.; variable clouds

and gusty winds. 3:20 clouds closing in with

light sprinkles. 4:37 no rain, much lighter.

5 Mar 1/2 high hazy cirrus overcast, 1/2 blue with

afew clumpy cirrus 9 am = 45°F. 11:15 = 50°F

Now blue sky, afew cirrus & well developed cumulus to W

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1991

Journal

201

5 March, del Norte St., Berkeley, Alameda Co., Calif.

2:35 pm = 57°F nice building cumuli everywhere. 3:10 The cumuli to NW have coalesced on a broad front N to a bit beyond SW and the bottom of this new towering cumulus is getting dark, the sun is slanting. Bellawing clouds off to W-WNW in N. Marin & Sanoma co.

3:23 darker, seems to be making S. & sun is now blacked out. 4:36 - Clear, light breeze & 56°F, 6:32 just dark, clear, = 47°F calm

6 Mar clear, 38°F at 7 am, calm. 12:09 pm clear 49°F

7 Mar clear crisp. 8:17 = 46°F ^{clear in sun} 3:50 = 74°F

4:22 in again - its lt foot is being held up so happening about on Rt. Sycamore, flew to Pittos then very top of oak - circuse lt
4:28 flew down & SW. Scrub Jay

8 Mar clear, calm 8:20 am = 45°F This time of yr. noted for greatest number of birds. Flocks of robins, waxwings & goldfinches in the blues. 8:37 = 50 + goldfinches & 25 + waxwings. 9:22 the first young of the year - a juv. band-tail. 9:30 now breezy 10:35 nothing about, left a ♀ house finch at the D-Q. 11:47 am = 59°F almost beling. 12:25 = 61°F with periodic gusty winds. 1 pm caught a Fox Sq. in trap & delivered to John Ninkle Lab - among the many acbs.

4:20 clear, calm = 66°F just about a spring day

6:11 sunset = 58°F Storm is due in tomorrow ^{rite}.

9 Mar 9 am = 51°F scattered cirrus from S, calm

9:50 almost solid cumulus cloud cover & now no sun 3:35 pm 54°F scattered cirrus & cumuli, periodic sun

Christman
1991

Journal

202

9 Mar. Del Norte St., Berkeley, Alameda Co., Calif
6:06 3/4 clear = 49°F The raised finger of sun

10 Mar 7-9 am scattered clouds, fairly
clear at times dark blue clouds to W.

9:20 dark clouds overhead. 9:41 am
more clouds & darker with more wind. 9:52
= 52°F & first light sprinkles. Sky now
a uniform monotonous gray. 10:05 long
rolls of thunder. 10:40 periods of driving
rain & strong winds. 10:35 down pour -
robins in top of elms. 11:10 another heavy
down pour. - I dove on line no other
activity. 11:15 a flash of lightning, 5 sec. and
rolling thunder for 10 sec. great crash!

11:19 more lightning & a huge crash - very
close. 11:23 lightning, 6 sec. a more
modest roll of thunder. 12:20 pm light rain
with sky a bit lighter no holes, monotonous.

1:45 = 45°F light rain has been lots of bird
activity: robins, doves, HF (9 doves on line)
chickadees & bushtits in cab. 1:55 light to
W. 2:15 pm = 44°F light rain, foreground dark
with robin singing - distant & light clouds to
W, dark overhead. 2:59 = 50°F lightened up, but
still overcast, slight breeze & disjointed cumulus.

3:32 getting dark again. 3:43 sprinkles once again
4:05 heavier sprinkles - lots of sun lit clouds
& blue sky far to W (SW to NW) = 44°F.
4:12 dull sun in from under clouds & heavier
sprinkles we have had a modest soaking

* today is a good example of bird activity
being greatest during rain. 6:30 almost
dark; 80% clear some cumulus & banks of dark
clouds to W. 6:30 RAINFALL = (.71) 42°F

11 Mar clear 8:23 = 42°F calm

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Journal

203

11 Mar., adante st., Berkeley, Alameda Co., CA

10 am fluffy ill defined cumulus clouds forming over coastal hills SW to NW.
11 am cumulus tow., in distance & 2 cumulus overhead. 12:30 nice fluffy cumulus clouds in all sectors of sky - they are building up with sharper edges = 51°F 4:13 same big edges of poorly defined cumuli to the W. (moving S.) = 65°F in sun. 4:48 wind from S, occasionally breezy, the cumuli are now overhead from W. Banks of clouds off to W. 6:25 = 47°F, 80% cumulus cloud cover very calm dark to W.

12 Mar 8:15 am = 44°F light rain - this is a Robin Warning feeding hungry day

9:30 except for a towhee the place is now empty - no nothing
10 am a few breaks in clouds, brief sun and few breezes. still cloudy little birds out - a robin calling. RAINFALL (10") at 11:30 am. continuing cloud cover.

1:20 light sprinkles after a dry spell. 1:42 a nice wet rain shower: 1 dove on line - that's all. 1:45 1 flock warblers. 1:47 getting light, rain tapering off. 4 pm no rain out for 1 hr + clouds going N fast, at times very dark = 51°F 4:25 HF, towhees, doves (10), JS, titm.! The sky is lighter (high overcast) to W. & dark clouds moving to N. 6:06 = 51°F darkening sky.

13 Mar rain last night = (.76") 9:18 = 46°F clear, sparkling with few building cumulus. everything is wet. 11:29 = 52°F More cumulus & to S - 1 towering cumulus. caught a Fox sg. & transported to J. Heible Park.

Christman
1991

Journal

204

14 May, Edna Ave St, Berkeley, Alameda Co, California

38°F at 6:45 am. 44°F at 8:27 am - clear

with fleecy & long thin cirrus. calm.

8:51 a fox sp. arrives: 1 seen alive, 2 trapped
& transported. ~~8:59 a fox sp. arrives~~

~~more foxes~~ 9:20 a few cumulus - small
& fuzzy building up to W. 10:06 = 49°F

more cumulus, not building up, or billowing

12:15 more & larger cumulus & horizontal filigree
cirrus = 55° with light breezes. 1:34 breezy

& more clouds from S & W. 55°F. 2:06 pm
windy - almost completely cloudy (blue

to NW) dark layered cumulus. Was at
Nature Co. = Bought a Cloud-Weather Book

3:17 clouds W to E with patches of sky, winds
as 25 + B.S. Gammas are falling. 3:48 1/2 clear

1/2 high clouds to E. wind - entire Pittospermum
mowing - as oak branches & 30' of elm limbs - deep
yellow oak leaves falling - towering cumulus to W.

Nature Co flag = from N. 4:03 clearing! to SW,

clouds. Now NOF from S! 4:30 - clear except

1 puffy cumulus overhead & towering C. to

far W - NE winds - strong! 5:25 clear &

windy - trees mowing! The 'Frank' passed

trip after noon & fell apart = TV News.

RAINFALL last night = .08"

= 8 am.

15 May clear & 37°F heavy clouds over hills.

9:06 fluffy cumulus from N. 10:51 mainly

~~clear~~ clear - first cirrus to NW. wind

from N. 3:06 99% clear = 70°F The Nature Co

flag is S wind 6:17 clear = 51°F calm

16 May. 9:15 am = 49°F, breezy with thin overcast

at 9 am blue-cirrus, etc by 10 it was a general

overcast, breezy with diffuse shadows =

? alto-stratus - light gray.

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1991

Journal

205

16 Mar, del Norte St. Berkeley, Alameda Co., Calif

10:13 still dull, occasionally no shadows

11:40 since 9 no robins, waxwings, goldf.

- no bird activity - is it the breezes?

1:15 overcast, breezy with sounds. 3 pm suddenly lots of activity. The last br. has seen 100 \pm goldfinches in dms. Oaks is attracting attention new growth calkins: chickadees tit mice, bush-tits, towhees 4:35 the first drops are falling. 7 pm parch is dry! No rain yet wind during night - rain started 4:30

17 Mar, consistent midam - light rain

8:36 = 43°F, 10 am very light sprinkles.

to S & W opening up with light gray stratus behind layers of gray. 10:23 rain stopped

Since last night RAINFALL = (0.42") 11:34

Things closing in again - from S. sprinkles start, getting darker. 12:11 lightening up again light sprinkles. 2:23 stopped raining spot of blue to W. = 48°F 3:27 chunks of blue, no rain = 56°F. chunkie clouds to N, a few dark spots on horizon. 3:52 some big cumulonimbus to W. chunks of loose skud skudding past

18 Mar, 8:12 am = 44°F clear with some

cirrus & lots of low distinct cumulus to W & S. RAINFALL (since yesterday noon) = (0.33)

9:30 well formed cumulus forming to W with 1 cell developing slowly into a mini-towering type. 10:40 a huge mass of cumuli built up W-NW and moved S overhead. Now a towering c. to W. just a line to NW billowing up. 11:18 the billowing cumuli are greatly expanded & from NW a huge dark one developing overhead. = 58°F, 11:46 dark overhead, in shadow here = 52°F

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Journal

205

18 Mar, del Norte St., Berkeley, Alameda Co., Calif.

12:17 pm most of sky billowing cumuli, no rain.

2:52 = 57°F complete cloud cover - low cumuli & a cover of stratus (sun blurred, no shadows). 3:17 Fat sq feeding on savanias in elm grove st. Not "in" to day so far.

4:34 full overcast, no sun, = 51°F slight breeze

19 Mar 7 am clear except S & W. 8 am 75°F

complete cloud cover, 45°F 11:15 am = 53°F

In the past a general overcast developed & at 11 am very light sprinkles began. 12:31

Occasional sun & gusts of wind dark cumulus clouds to N. with few patches of blue (just those few splatters) 3:45 a huge ominous

new dark cumulonimbus immediately to W

4:52 - it has moved NE, cumulus type gray with

2 altostratus bright as background to it all. Various are dark to W. occasional gusts of wind

6:31 have a few light showers - now dark. 6:50 Rain

7:21 = 47°F

20 Mar rain last night (89) 8:08 = 43°F

lots of fluffy cumuli & bright blue sky.

Variable clouds all am. 5 p.m. are on

upper main st in leaf; in alhambra no leaves!

1:14 = 54°F cumulus building up to near NW

& getting darker. huge thunderhead & a shower

at 2:45! then cleared, a bit, then another new dark

till 4:30. 4:55 now another developing

21 Mar 8:30 = 47°F Variable cumulus clouds

almost clear at 7; now overcast. 10:14 fluffy

cumulus out of NW = 80% of my view.

Paper claims another storm due on Sat - Sun

3:30 lots of blue, except for a huge dark cloud

overhead - over the hills. This seems to be

a phenom these days = 55°F

Crivinsmen
1991

Journal

206

22 Mar, del Norte St., Berkeley, Alameda Co. CA

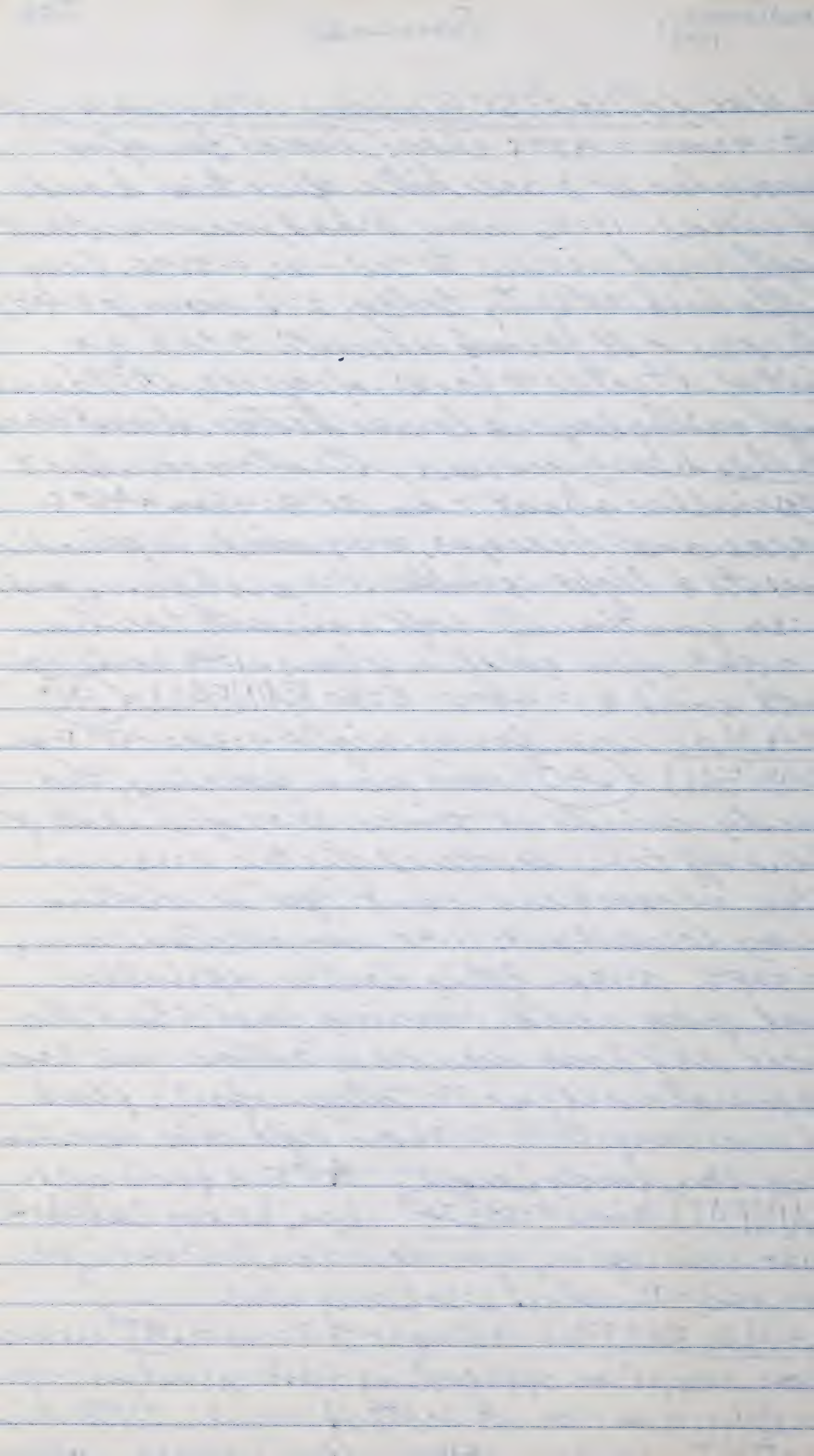
10:41 am = 47°F clear, except for a few cumulus w & over hills. a few thin bands of cirrus. 11:36 now broad, inconsistent patterned cirrus to SW-W. = 51°F. Very little bird activity today. 2:16 now (= 54°F) streams of ill formed cumuli S to N & a bit of stratus to far W, of course, still cirrus high milky layer & lower stratus. almost dark

23 Mar heavy overcast, stratocumulus?

sprinkles about 7 am. At 8:45 am = 48°F occasional breezes. 10:29 winds in periodic bursts & light sprinkles. 11:11 a shower, medium. 12:34 continual soft rain with taw-las in oak & a few galls. in elms. 1:48 harder rain, with wind & = 48°F 5:30 RAINFALL = (.91")

24 Mar rain during night 9:30 = 47°F and RAINFALL = (.40") rain never pausing, tho gusty winds at times. 10:07 a few spots of blue off to SW scattered stratus. 10:23 more blue, no rain & sun is out. "open" in relative way so went out. 11:45 over all cloud cover, = 54°F. 12:13 p - getting darker, sprinkles and gray seeds moving fast S to N. The last half hour was very active - all local species almost (no J's today so far) a flock of waxwings to N. 2:32 pm light rain, monotonous gray sky, fairly bright, = 46°F & feels cold. RAINFALL since 9:30 = (.74") 6 pm heavy dark clouds. 6:20 rain again, more dark clouds. 6:28 lightning (10 sec) = thunder! 6:30 heavy rain.

25 Mar RAINFALL last night to 9: am = (.87") at 8:30 clear except an approaching dark nimbus - rained for 1/2 hr. 10 am clear with scattered cumuli. Little bird activity 10:34 = 49°F feels much colder



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Journal

207

25 Mar, del Norte St., Berkeley, Alameda Co., CA
11 am. Cirrus overhead, sunny with
slight breeze, cumulus off to W heading
N. The street has dried, the sun bright
with everything washed & sparkling.
The trunks of the elms dark and wet
with lots of green moss and grayish
lichens. 12:31 occ. sun, calm gray cumulus
from SW & huge streams of a high stratus from
W. 3:47 PM 56°F stratus & cumulus building
up, dull sun, breezy. 4:12 very dark to W, from
SW to N & wind increasing - major branches
sun slanting in also! dramatic.

26 Mar ~~Pure~~ drama - about 5:30 am
thunder and lightening (10 to 20 sec down
to 5 sec) and then a violent down pour.
with light there was an inch of hail
everywhere! 37°F at 7 am. Looks like
winter snow, etc. 8:37 = 40°F sprinkles
up to now - now moderate rain with
breezes. still hail in spots & 1" on landing
- doves walking on hail! 8:51 its
very dark and cold. RAINFALL at 9 am = 1.06"
9:34 - driving rain - heavy, slanting from S.
9:43 rain tapering off & lighter - can see
Marin Co. hills = 38°F! 9:51 a shower -
straight down. 10:02 milky stratus behind
cumulus to W. & 1 small hole of blue.
rain stopped. 10:55 bright area to NW & a cumulo-
nimbus towering up. a broad dark horizon
N-S around horizon NW to S as far as I can
see, 11:05 the dark cloud over head - very dark
sprinkles beginning 1:08 = 51°F no rain, rather
bright tho variable. Several thunderheads to SW.
3:26 variable clouds, 56°F. sunny.

Christman
1991

Journal

208

26 Mar. del Norte St., Berkeley, Alameda Co., CA
dark from N to SW at 4 pm. 6:16 = 46°F
scattered cumulus same arching.

27 Mar. 8 am clear calm, = 45°F 9 am with
some fair weather cumulus & bands
of cirrus. 11:33 clear again = 51°F, slight
breeze. Nothing about! empty, zilch. 4 pm
in sun = 64°F occasional breeze, clear.
6:38 - after sunset = 51°F calm. 6:44 still
fair amount of light - a BAT is flying in
circles between oaks - the claws & the appendage
to SW, with dips, etc. It looks 4-5" in length.

28 Mar. wall to wall fog. 8:30 = 50°F calm.
Fair amount of bird activity this a.m.

10:45 first sun & few small holes in fog.

11:05 1/2 clear, = 54°F, 12:50 clear, a trifle hazy
= 57°F 2:09 = 59°F a few cumulus building
far to WNW, 2:29 occasionally breezy.

This a.m. Fox Sq in its became more scuffy
all the time about shoulders exp. It was
on ledge when another appeared on line
from oak - grad pelage. Now, 3:06, it
appeared in Pittos mar line - it could not
figure out how to "retrace its tracks"
to line. It was obvious it had not
done this maneuver before. 4:10 = 62°F

29 Mar. clear, calm 8:30 am = 49°F

1 pm = 60°F. 3:05 = 79°F in sun. 3:46 = 77°F hazy
to W. Leaves being to open all over NW elm.

6:16 just about sundown = 59°F calm.

6:25 after sundown the BAT flew well over
* trees E to SW - seemed high.

30 Mar. clear, 8:53 = 54°F Buck in house 3:30 +

4:35 a haze is now clouds of fog to W = 61°F.

31 Mar. overcast, 8:53 = 53°F calm 9:23 These ^{are} clouds.

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Journal

209

31 Mar. del Norte St., Berkeley, Alameda Co., CA
slight breeze from S. 1:20 small patches
of blue & occasional dull seen with haze.
1:56 = 62°F. hales in clouds to W. Scattered
clouds all pm, multilayered = 6 pm = 55°F
1 Apr. wake up at 4:16 raining! 8:06
= 50°F. great masses of cumulus-stratus
clouds to N only a few hales. 9:20 clouds
lower & more consistent, = raining. 10:14
a few hales in a thin cloud canopy & sun
is out = 55°F. Variable clouds all pm. 4:03: 56°F
6:12 = 53°F. 75% clear; a few long annulus to W.
calm. bird activity minus normal, but some
no real signs of spring beyond columbids
everywhere is waiting - like toewhees

RAINFALL = .07

2 Apr. scattered high flying cirrus. 9:20
was clear, now annulus building to W & a few
small fluffy ones overhead. 12:04 = 57°F; a
sparkling bright day, the trees are washed
clean with only a few annuli off to W & NW.
3:41 very clear 67°F.

3 Apr. clear 8:21 = 42°F 8:36 no bird activity

4 Apr. clear 8 am = 53°F a few cirrus 10:41 =
63°F, almost entire W sector is now hazy
cirrus & sun a bit hazy. 11:38 shadows are
now getting diffuse. 2:09 = 71°F, sun, feathery ^{cirrus}
2:20 surprise! Monarch sailed in front of
window rather low heading N. 2:53 = 78°F
6:27 sun at horizon = 60°F to W a few broad cirrus

5 Apr. variable cirrus-stratus, lots of blue =
8:27 = 53°F. 9:16 clear, a few fair weather cumulus
to W = 56°F. 3:23 pm sunny a few more cirrus = 76°F
Fog coming in in SW Berkeley. 3:37 now almost
entirely fog (no shadows) 65°F. 5:58 same = 57°F

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Journal

210

6 Apr., del Norte Rd, Berkeley, Alameda Co., Calif.
variable overcast everything but cumulo-
nimbus 8:56 = 55°F Wgy shadows. 9:57
now higher stratus, diffuse sun with strange
breeze = 56°F 1:36 pm = 62°F sunny, lots of
blue sky with N to S thin cirrus bands. 4:41
clear, windy, = 61°F wind from N(?) -

7 Apr. clear calm high 40°F DAYLITESAVING
TIME. to Palo Alto

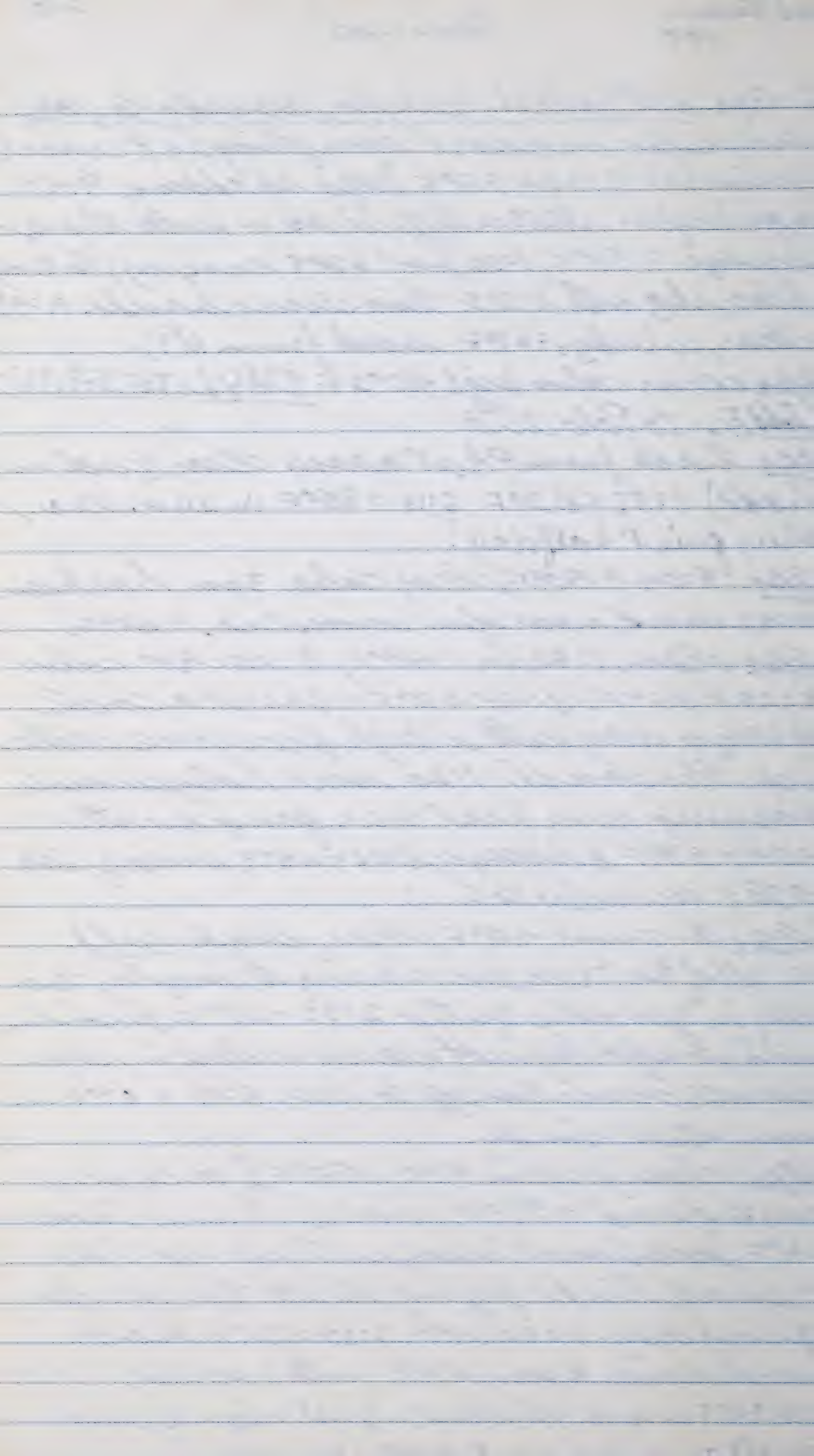
8 Apr. back from PA at noon. clear (cool in
shade) 1:37 = 62°F 6:13 = 85°F in sun. clear,
calm, quiet half day!

9 Apr. 8:04 = 50°F clear, calm. 3pm has been
same wind, now a few cumulus. = 68°F.

10 Apr. clear, 7:30 am = 40°F, 8:28 = 43° calm
9:25 = 46°F, 11:14 = 52°F - This is a cool
breezy day with a high pressure center
up the coast. 1:20 some baby cumuli
forming overhead to W., going south.
2:04 = 58°F & breezy. 6:06 = 68°F sunny, with
20%+ cumulus to S.

11 Apr. 8:12 am = 44°F clear, windy cold.
9:12 all of the trees are waving strangely, the
only in periodic gusts. 2:35 = 63°F periodic
wind, bright day not warm unless in sun.
1 small cumulus off to NW. 6:01 = 67°F in
sun. still windy

12 Apr. clear & calm 9:45 = 58°F! 10:09 a few
gusts of wind = 59°F. cool in house. noon =
64°F, occasional breezes. There are lots
of small birds flying about this bright
spring day. 1:28 = 64°F 3:35 = 70°F about
several doves & pair of HF with 1 scrub J
4:27 = 84°F in sun. (65 in shade) first sign of cirrus
far off on Wharf. a quiet spring day



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Journal

211

- 12 Apr, Edenite St., Berkeley, Alameda Co., California
nobody around. cirrus from W clear
hazy horizon, at 6:08 = 74°F in sun.
- 13 Apr fog breaking up at 8 am = 50°F, clear,
calm, except 1 band of cirrus to SE at
9:50 10:54 = 64°F high hazy bands of cirrus
to W in SE to NW, 1:42 = 57°F a cool hazy
day with a slight breeze. 7 pm = 57°F ^{hazy} clear.
- 14 Apr 8:30 am hazy clear with few cirrus 9:30
50°F with dumps of fog coming in! solid fog
over hills & to S, = 52°F at 10:15. 4:36 = 64°F
open, but varying amount of fog all afternoon
7:50 clear = 50°F a nice quiet Sunday.
- 15 Apr 8 am = 45°F clear with variable chunks
of fog or isolated cumuli. 8:38 occasional
gusts of wind - 47°F. Today is the first day
that all of the elms are really green with
leaves. 10:50 = 52°F out for awhile. There
are cumulus & some are building up -
breezy & feels cold. 11:55 = 54°F bright, cumuli
are bigger and billowing. 1:40 = 57°F; 80%
cumuli, breeze. 3:24 = 60°F wind from SW!
16 Apr 8:45 = 47°F a band of fog NW to S &
same ahead, feels cold. 11:05 = 55° still
50% fog - not cumulus. 12:06 = 56° a line
of billowing cumulus over Marin Hills 1:12
in a bright clear day - now at 54° in shade
tumbling cumuli to W. 5:36 sun = 62° ^{clear} dusk.
- 17 Apr 8:23 Fog & 48°F. 10:29 fog breaking
up - 50% blue & 51°F. 11:32 most fog has
dispersed, = 54°F. almost clear except high
cumulus to W at 12:30 = 55°F 2:23 now lots
of fog SW to N; 56°F 4:56 clear now! = 61°F
gusts of wind. 6:17 = 69°F clear in sun. slight
breeze. No bird activity - 'done

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Journal

212

18 Apr., ~~Marquette St. Berkeley, Alameda Co., CA~~
6:30 scattered low clouds, solid to S.

8 am solid overcast except far W. = 48°F .

9:12 clear, no sun yet. what looks to
be the first Pittos flowers and
1 white cluster. New growth has been
out for several weeks. 10:33 broken clouds
= 52°F . 11:23 = 53°F now some high cirrus.

11:55 lots of high cirrus haze shadows are
fuzzy, the sun out. 12:32 approaching a general
high overcast - to sunny. 2:12 almost clear.

5:40 = 61°F high haze now cirrus from SW.

19 Apr 8:15 = 45°F 9:30 huge bands of high
sheets of cirrus covering most of sky.

10:28 no sun now = 54°F . 11:38 quite sunny
= 57°F more blue. 12:25 = 59°F bright

sun & few cirrus, but a band of darker
stratus off to W. 1:45 breezy & much more
overcast. = 59°F . 6:36 heavier stratus
some bright spots. = 54°F

20 Apr. RAIN = .21" from $\pm 12:30$ to 6 am

- light 6:53 complete cloud cover = 53°F

9:59 sun out briefly. few holes in cumulus
type clouds going N. 10:07 a bit of a breeze.

10:12 sun, patches of blue & all shades of gray
in chunky clouds & sea. 10:52 big chunks
of blue, sun out dark cumulus bottoms to W
and 60°F . Wind at Nature 6 flag is from S.
a high stratus general overcast with chunks
of cumulus, no sun - at 11:56 = 61°F .

1:27 a dull general overcast = 61°F . 4:20 high
stratus lower others; = 59°F all outside Temp.

6:12 heavier stratus level = 55°F almost no sun.

21 Apr. RAINFALL = .25" last night. 1:07 = 66°F
cumulus & high stratus everywhere with

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213

21 Apr, del Norte St., Berkeley, Alameda Co., CA
travelling cumuli over hills on highways.

3:42 windy, all high stuff gone, travelling
cumulus to W = 76°F in sun. 5:58 = 66°F
just about clear, cumuli to NW only.

22 Apr 7am = 47°F ; thin fog came, 8:11 =
 49°F The apple tree is in flower, & has
been for a week plus. Today buds
opened in the linden tree! 5:09 = 63°
clear except strings of fog.

23 Apr 8am = 48°F with complete low
cloud cover. a slight mist began at 9:30
10:40 = 49°F getting darker. 10:53 almost
a light rain falling. (lasted 5 min.) 1:07 = 52°F
dull overcast & almost cold. 3:40 so far
no sun today = 52°F 5:57 = 53°F broken
clouds, no blue but strong diffused light.

24 Apr overcast, light sprinkles at 8:15
9:27 = 52°F . 10 a.m. a nice gentle rain = 49°F
11 am rain stopped & lightening up a bit. at
11:37 = 52°F . 4:07 still overcast hanging ^{stratus}
= 63° bright, no sun. RAINFALL = .09"

25 Apr up early dawn about 6 when
singing since 4:51. 6:03 = 47°F . 6:12 almost
light enough to read. Clear - 1 or 2 long
cirrus. 8:22 high cirrus increasing to N.
9:15 more stratus in from W. 9:35 more stratus
sun now obscured. 11:15 variable low clouds
& cirrus 12:07 = 57°F . 1:34 variable clouds, 75%
= 60°F . 2:18 complete cloud cover, all muzzles,
opened up a bit at 3 with few drops. 4:37 = 57° -
complete cloud cover. 5:40 light sprinkles.

26 Apr variable low clouds 8:47 = 49°F . 10:08
about clear, 52°F . 11 am = 54°F clear except for
some real baby cumulus overhead, ^{light} more

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Journal

214

26 Apr, ~~del Norte St., Berkeley, Alameda Co, CA~~
1:30 at Yukin's house in Kensington -
stellar jay, singing Bl-headed vireos
& blackbird ? ♂ Antelope warbler in an
open disused oak & in dense pine.
3:55 98% clear = 86° in sun; 1 wispy cirrus.

27 Apr. clear, calm 9:15 am = 52°F. 1:05 sunny
62°F, occ. breeze - light

28 Apr. clear, 9:16 = 54°F a clear quiet spring
day 3:15 a few small cirrus, = 72° in shade.

29 Apr. clear, 47°F at 6:30; 8:20 = 54°F; 9:45
60°F. 3:34 = 86°F, slight breeze. 7:39 sun about
dawn, = 66°F, unseasonably HOT here.

30 Apr. 48°F fog at 7:30 & 8:30 am. Began up
today - clear about noon, then N-S bands
of cumulo-stratus to N. after, 6 clear except
for a few cumulus. ^{5:50°F} Wednesday, Windy at 7:30

1 May variable clouds - few cirrus, cumulus
and towering cumuli. 7 am = 45°F, 8:47
= 46°F 9:45 mostly dark cumulus over
head with periodic sun & 50°F. 10:06 a light
mist falling - a chunk of blue tow. 10:13 it
passed: now sunny, breezy, lots of blue & 50°F.

11:05 complete cloud cover, breezes & 52°F.
cumulus building. 11:24 sprinkles again, getting
dark. 11:54 sprinkles have been very brief -
~~now~~ windy with a cover of stratus & clouds.

2:29 dawn pass - cloud c, but discrete clouds
3:17 " " heavier, roof dripping. 4:03 of
hales in dark sky, no rain. 5:30 pouring up

same sun, high stratus, low clouds to NW.
2 May low dark clouds 47°F at 8:20. 12:27 =
56°F still overcast with occ. breezes. 3:54 = 59°
no real sun or sky all day. feels cool!
5:38 = 54°F still overcast

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3 May, del Norte St., Berkeley, Alameda Co., Calif
9:22 am = 51°F low cloud canopy, slight breeze. 3 pm sun out 90° clear = 61°F
6:06 clear, breezes = 63°F.

4 May 9 am fog & 49°F. 10:26 a diffuse sun with a few holes in fog, 54°F slight breeze. The elms are now out in their full summer glory of leafage! 11:07 almost clear - still cool! 11:35 still 54°F multiple bands of cirrus from NW to SE with transverse ribbing -

3-way clear, 64°F clear 7:02 = 67°F in sun, sparkling clear - with band of Macbeard ^{clouds} to W
7:35 above now overhead with stratus ^{off} ^{proceeding} ^W

5 May hazy clear, - high cirrus 9:26 = 54°F
10:53 misc stratus to W = 57°F. diffuse sun.
12:09 a massive bank of light, stratus from NW to SE & now, nearly overhead. 1:13 = 67°F, thin complete overcast, bright diffuse sun.
3:19 = 73°F more high cirrus, some hazy blue & solid diffuse stratus. 4:24 = 74°F ^{lower} ^{stratus}
5 - 74°F heavier stratus 6:29 = 65°F low cloud cover

6 May clear 8:35 = 54°F; calm. 9:35 several bands of cirrus to W; hazy horizon = 56°F. heavier cirrus S & W = 2:26 = 67°F. 6:10 in sun = 70°F clear with a few flimsy, thin cirrus to SW. 6:45 in sun = 84°F clear, but a few more cirri to W.

7 May variable cirrus overcast; 55°F at 8:05 with diffuse sun. 1:25 clear, except convergence of cirrus off to NW = 68°F, nice sun, 6:45 = 75°F cirrus & Macbeard clouds from S & W for a change! 7 pm off to W. layered stratus.

* Bird activity has changed - 2 pr towhees, the J's, few robins under elms up st., H.F. & chickadees; the stray nuthatches. Lanes of

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8 May, ~~Adelaide St. Berkeley, Alameda Co., CA~~
clear except for low clouds to W-NW &
over hills - 8:07 = 51°F 8:11 low clouds
approaching from NW 10:47 am = 56°F, clear
windy, chilly. High pressure to N. 2:48 pm
= 62°F in shade, clear; sparkling; windy.

9 May clear 8:03 = 45°F cool. 11:10 = 53°F
with first breezes of day. 1:40 = 59°F bright clear
light breezes. 3:45 very light breezes. cumulus
low, to NW & N. Sparkling day. 5:51 these clouds
now over head with gusty winds. = 60°F 7:14 = 59°F
heavy but broken cumulus over head & a light
rain! clear & bright to W. Periodic breezes.

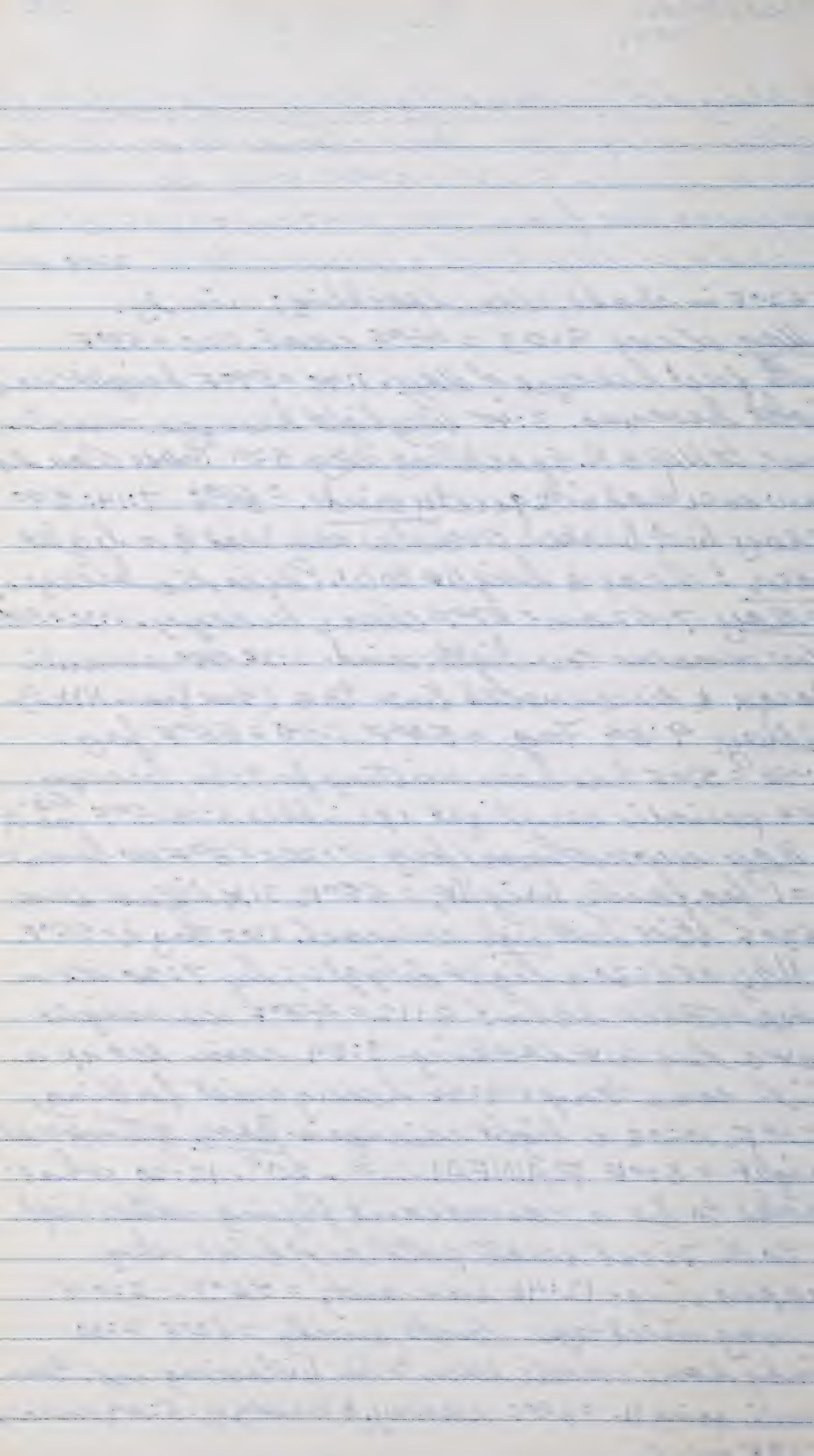
10 May 7:52 am = 51°F clear, breezy. 1:30 = 58°F
few cumulus to W. lighter wind. 2:24 = 59°F cumuli
larger & disconnected line to S (SW from NNW).

11 May 9:34 Fog, = 54°F. 1:48 = 56°F fog.
3:46 = 51°F has been misting for 1/2 hr., breezy,
3:54 periodic very light sprinkles. 6:06 = 51°F ^{no} mist

12 May monotonous fog 10:20 = 53°F no breeze.
1:01 fog, fairly bright, = 58°F. 3:35 diffuse sun,
= 63°F still dull high overcast. 6:07 fog & = 56°F.

13 May at 6:30 a light drizzle; by 7:30 it's a
respectable rain! 8:12 = 49°F we might
get a decent soaking. 8:54 rain let up a
bit. same temp. 9:46 heavy mist falling,
= 51°F. 10:08 a light rain again. Noon getting real
bright = 57°F RAINFALL = .20". 12:20 what
looks to be a cormorant flying rather high
S to N. First small patches of blue sky

appearing. 12:46 sun out, = 56°F. 2:04
sunny mixed type clouds, windy = 62°F 2:50
windy same cumuli seem to be filling up. 4pm
cumuli going N. = 69°F sunny, & breezy. 5:24 overcast
= 56°F wind



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14 May, del Norte St., Berkeley, Alameda Co., California
Clear except for fog back to SW. 8:30 = 51°F
10:05 = 55°F. The cat has been getting business
from *Vireos gilvus*, lark-tits & *Wilsonia*. 2:16
= 63°F calm, sparkling clear. 3:30 = 69°F.
6:02 = 79°F in sun, bright sun; very slight breeze.

15 May 8:08 = 50°F clear, calm. 12 noon a
bit of a breeze, 59°F clear. 2:27 = 63°F in
shade, still clear, slight breeze. 2:40 first hint
of cirrus far off to W. 4:05 = 89°F in sun. cirrus
a bit higher on horizon. 6:45 = 82°F falling cirrus
& a few small cumulus overhead breeze.

16 May clear breezy 8:30 = 51°F. haze low
& several bands of ? cirrus S to N. off to SW.
hazy getting closer, the " " all mach and
clouds - stratus. 9:27 getting more windy
& haze is always overhead. still sunny at
9:46 = 57°F, uniform haze. 11:20 chunks of
fog S to N, 30% cover. 1:35 haze clear, 59°F, WINDY.
2:23 still patches of fog & more wind, 4:28 = 71°F in sun
windy bright - cirrus & detached stratus S to N
in a few streamers. 4:48 10% blue, latters wind
various levels of stratus & cirrus & some low clouds.
6:04 complete cloud cover, same wind, = 58°F.
6:18 a mist falling at an angle. 6:22 light rain,
= 56°F, windy still (!) 6:25 heavier. 7:03 rain has
lightened up last few minutes. 7:30 = 54°F, it's breaking
up, sun there, small patches of blue. chunks of cumuli.
7:56 almost clear! a few fluffy cumuli, wind = 53°F

17 May clear, except rather diffuse cumulus
from NW to NE, slight breeze & 49°F.
8:35 a few chunky cirrus from NW & cumulus are
beginning to have form = fair weather cumulus
& heavier wind. high pressure to N. 9:15 =
52°F breezy & more cumuli 50%+ sky.

The first part of the paper is devoted to a general discussion of the problem. It is shown that the problem is of great importance in the theory of differential equations. The second part is devoted to the construction of the solution. It is shown that the solution can be constructed in a unique way. The third part is devoted to the study of the properties of the solution. It is shown that the solution has a number of interesting properties. The fourth part is devoted to the application of the results to the theory of differential equations. It is shown that the results can be applied to a wide range of problems.

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17 May, del Norte St., Berkeley, Alameda Co., Calif
10:45 = 58°F more fair w cumulus, windy
2:59 few stratus developing & few tower cumuli
over hills, gusts of strong wind. = 61°F. Sunny.
6 pm = 62°F high stratus & cirrus, windy.

18 May clear but for some filmy cirrus
& bank of something to W. 6:22 = 42°F
7:21 = 45°F now potty overcast of cumulus going
S. 80% & cover. 9:02 complete cloud cover,
= 51°F. 10:10 = 53°F a bit breezy. More open
at 11:30 with sun out, high stratus = 55°F.
11:58 darker wind & clouds from W. over. 1:42 sun
out a few patches of blue - 60°F

19 May Caught Fox Sq at Tam - down
Galeno! rain last night

8:40 = 48°F clear except for thin cirrus
haze, calm. 9 am cumulus c. from N, NW.
1:24 = 59°F hazy clear; cumulus off to W. 5:35
- sunny of few cirrus = 85°F in sun.

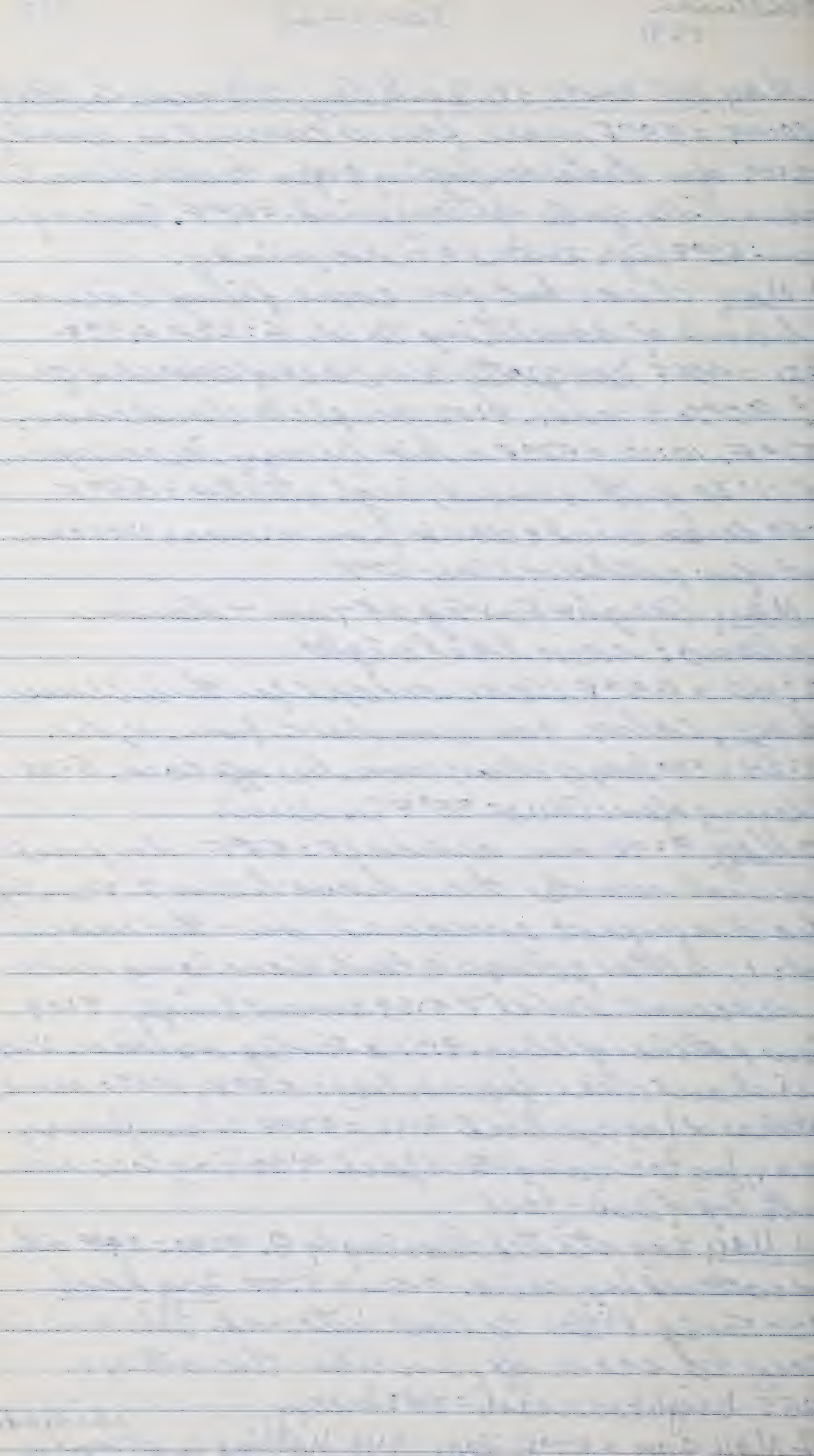
20 May 8:46 am overcast = 58°F du past
several months there have been 2 Fox Sq.
tho I suspect I named on - the male
ad: 1, better pelage & tail. Now long will
a name live? 8:54 sun out briefly. 9:09
a few patches of blue. 9:51 a Fox Sq. on line. 11:19
just about clear, fog over bay = 55°F, 11:55 = same,
patches of fog overhead. 4:12 = 83°F in sun; breezy
clear, fog to W going NE - N fast. 4:38 fog to W even
with top of oak - fast

21 May fog started clearing by 8. 9:30 = 54°F with
scattered fog, calm. 10:52 = 57°F fog back
11:50 Fox Sq Pitts to line into oak. This one is
easy to scare off, unlike the other 1.

5:55 bright overcast, = 58°F breezy

22 May 8 am = 50°F fog. 9:13 nothing in except a

chickadee



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22 May, ~~at~~ Route 21, Berkeley, Alameda Co., Cal.
then several H. fishes. Leaves in air 10:52

11:07 Fox Sq. in Pittos trying to get to line, but
even they trimmed this tree Sunday so the
easy access has gone what will it do?

1:30 1/2 blue 1/2 patchy fog - 59°F windy. 3:37 - 6 to
F, fog returning 25% blue, breezy. 5:35 bright
tho no sun, can photo Fog = 61°F. Slight breeze.

23 May Fog 8 am = 53°F. 8:30 sun out, after
haze in fog. 8:45 almost clear (tho hazy). 10:09

Fox Sq. with long tail from cab on line to Pittos

12:20 = 61°F clear, tho a bit hazy. 1:06 a
Fox Sq. in; chased down line into Pittos.

its tail is rather scruffy. It's new in
there chattering - mad as hell. This
can't be the one I "washed" could it?

5:48 clear, bright, calm = 83°F in sun. 7:10 birds

24 May clear with variable wispy cirrus

9:20 = 60°F! 10:53 = 64°F cirrus heavier to
point of dull sun & haziness. Little bird
activity this a.m. The D-4 is down to 3"

so no chubsadees & fishes. Only 1 towhee.

3:26 still lots of cirrus - 75°F in rather hazy sun.

5:43 = 71°F continuous stratus; dull sun!

25 May clear 9:30 am = 57°F. 11:30 = 62°F. Now

cirrus approaching over cab & haze below
to W. a weak front approaching. 2:31 isolated

cirrus = 70°F slight breeze 3:57 in sun = 92°F.

7:32 = 67°F in sun, bright & clear. Nice day for a change.

26 May clear, slight breeze. 9:10 = 53°F. 3:46 = 81°F

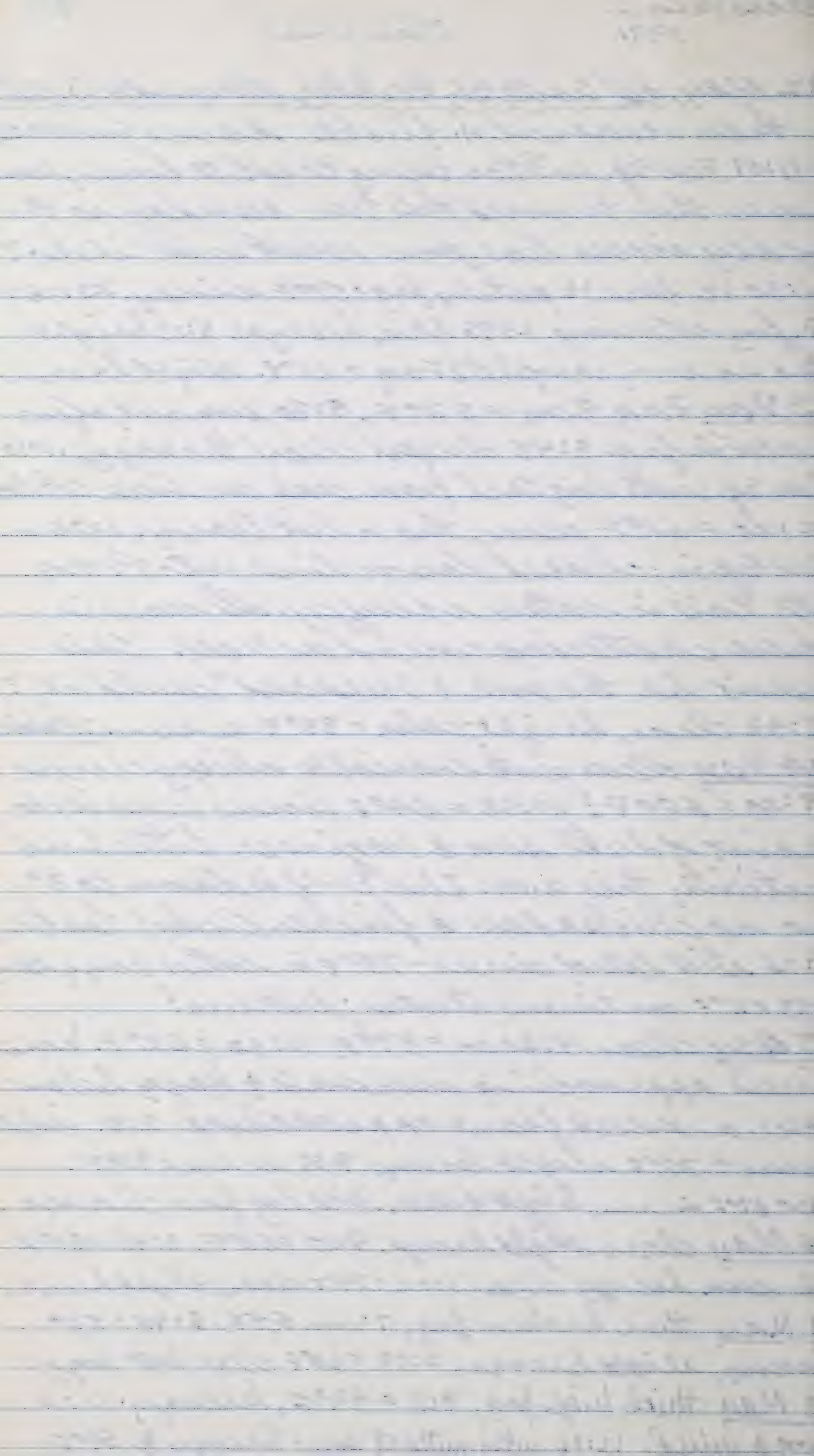
in sun breezy clear. 7:02 = 74°F clear, slight breeze.

27 May thin broken fog, 7:00 am 50°F, 8:45 = 55°F

sunny, slight breeze. 2:38 = 68°F clear, but hazy.

28 May thick high fog, 8:11 = 49°F, breezy. 11:11

Fog & wind. 12:36 intermittent sun; breezy & 59°F



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28 May, del Norte St., Berkeley, Alameda Co., Cal
3 pm was clear as the heavy & breezy
new fog returning. Caught a Fox Sq &
took it to J. Hinkle Park. 6:02 bright sun,
fog raising in = 73°F.

29 May clear 8:05 = 59°F a few whiffs of fog
going N. 10:28 layers of stratus off to W. = 59°F
12:53 has been overcast for 1 1/2 hr. = 61°F
stratus approaching under high cirrus, etc.
3:21 = 67°F diffuse sun, complete high overcast
with broad bands of darker stratus. 5:43

general overcast, sun to far W., almost calm = 57°F

a light rain started 11:30 RAINFALL = .12"

30 May 7:58 am clear, windy, = 48°F. 11:25
since about 9 windy with fair weather
cumuli out of NW-N. = 57°F. 5:50 has
been clear as hile, = 86° in sun.

31 May 8:24 am clear, calm = 57°F. Nice day

1 June 9 am = 63°F clear, calm. 3:39 = 75°F

light breeze, getting hazy & isolated small globs of fog.

4:16 more small fog chunks from SW. = 86°F 4:37 =

80°F (all in sun) larger chunks of fog raising in with
breezes. THE FIRST Oak Mtn. - L. 4:52 dull sun

complete fog - thin, cover, acc. breezes = 81°F

5:55 = 57°F slight breeze, breezy. quiet day

2 June 7 fog, 53°F to Palo Alto

3 June 12:15 back from P.A., small patches of lingering

fog = 56°F breezy 5:32 = 85°F, slight breeze, clear.

4 June fog 7-8 ±; 9:30 mostly clear = 53°F

1891
Journal
1891
The first of the season was a very fine day, with a light breeze from the west, and a few clouds in the sky. The temperature was in the 70's, and the water was very warm. The fish were very active, and the birds were very noisy. The day was very pleasant, and the weather was very good. The first of the season was a very fine day, with a light breeze from the west, and a few clouds in the sky. The temperature was in the 70's, and the water was very warm. The fish were very active, and the birds were very noisy. The day was very pleasant, and the weather was very good.

Christman
1991

Journal

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4 June, del Norte St., Berkeley, Alameda Co
11:09 = 57°F. Nice day

5 June Fog but sunny & almost clear by 8:45
3:15 = 61°F bright sun, windy with bits of fog
3:20 - 1 oak moth.

6 June part fog 6:30; all fog 7:45. 8:06 = 49°F
9:36 sun out, still overcast N to S on W view.
11:47 variable fog - sun = 55°F with wind. 4:42
almost clear, some fog = 79°F, breezes.

7 June Fog. 9:37 sun, 1/2 fog = 53°F. 1:26 clear,
calm, cirrus to W. = 65°F. 3:25 = 74°F ^{more} cirrus W.
3:47 - 1 oak moth. 3:52 saw 2 oak moths. 4:12
thin hazy cirrus overhead. 90°F in sun. 4:20
3 oak moths, then 4

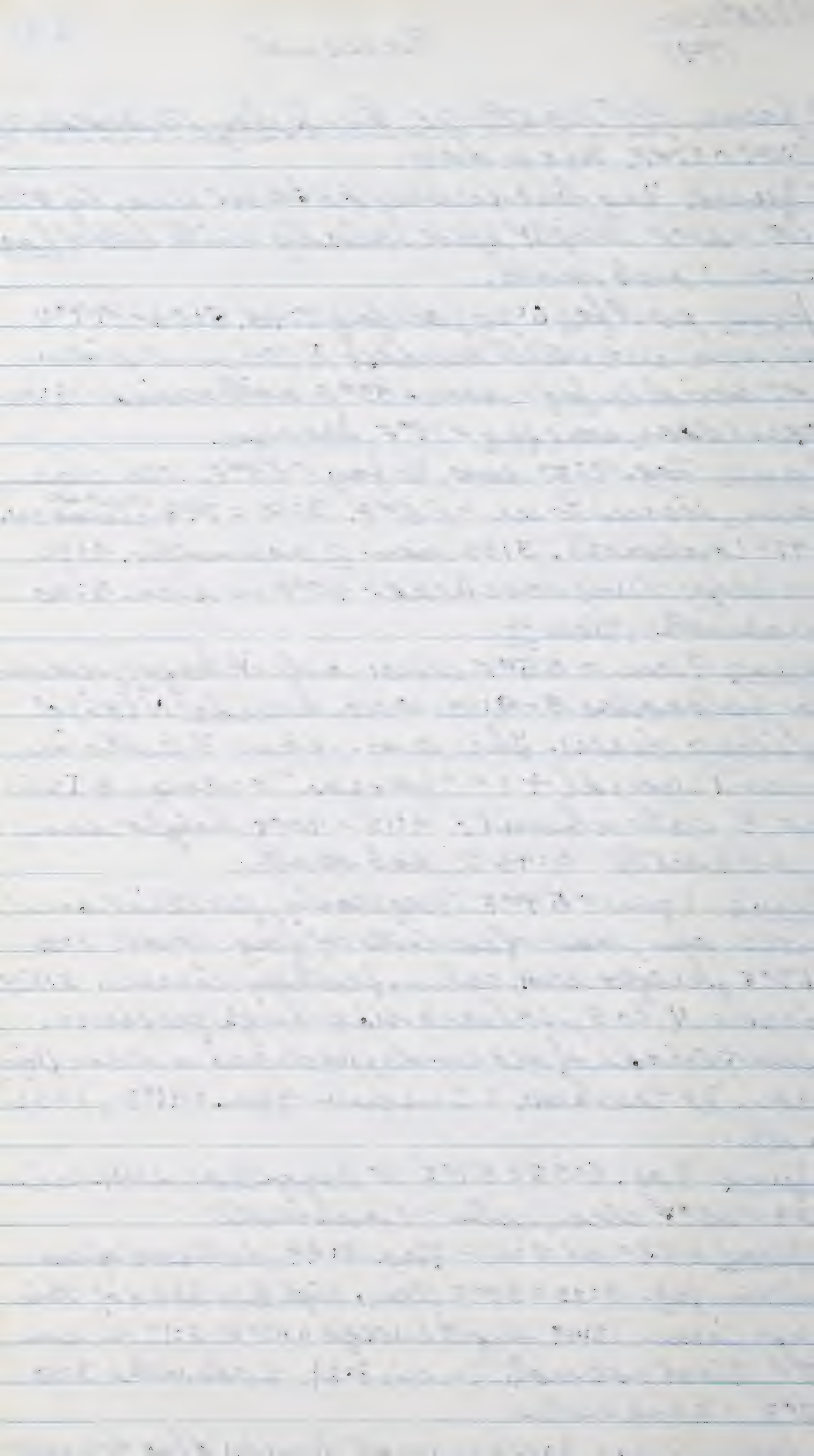
8 June 9 am = 55°F clear, a bit hazy; warm
on Salano Ave 8-8:45. 10:12 hands (N to S) of
filing cirrus. This a.m. saw 3 cats in
front yard (+ 1 = "Jasper" orange & Isis
so 5 cats about! 4:15 = 90°F bright sun;
1 oak moth. 4:45 2 oak moths.

9 June 1 pm = 59°F. Fog early, partial sun
late am, now few bits of fog. cal. 3:23
= 67°F, bright sun, calm, feathery cirrus. 3:54
cirrus N to S, so back side high pressure.
Been periods of no wind, perhaps a deer flying
over. No towhees. 1 J. scrub 4 pm = 91°F, 1 oak
moth.

10 June Fog. 8:08 = 51°F 10 hazy clear, sun. calm.
2:34 = 65°F clear, calm - 1 oak moth

11 June = 55° at 8:11 - Fog. 8:49 dull sun few
holes in fog. 10:23 = 59°F clear, high thin band of thin
hazy cirrus. 12:49 slight breeze = 62°F. 3:17 in sun
68° First oak moth (1, 1c) 3:24 2 oak moths 3:50
83°F = 3 oak moths

12 June clear, breezy, small drunks of fog 9:16 = 54°F



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12 June, del Norte St., Berkeley, Alameda Co., CA
1 pm. 60°F breezy clear. 2:46 = 64° same
- first oak moth (1): 3:05 - 3 o'clock.

6:27: 87°F in sun, breezy

13 June clear 57° at 9:46 am. 1:43 = 64°F 1 oak
moth 3:30 75°F. 3 oak moths. 3:47 = 84°F with
4 oak moths & becoming breezy.

14 June clear, calm 9:22 = 56°F. 1:50 breezy
& 62°F. 4:33 = 85°F 3 oak moth (at 1 time);
then 4. 4:47 at least 5. 4:54 6!

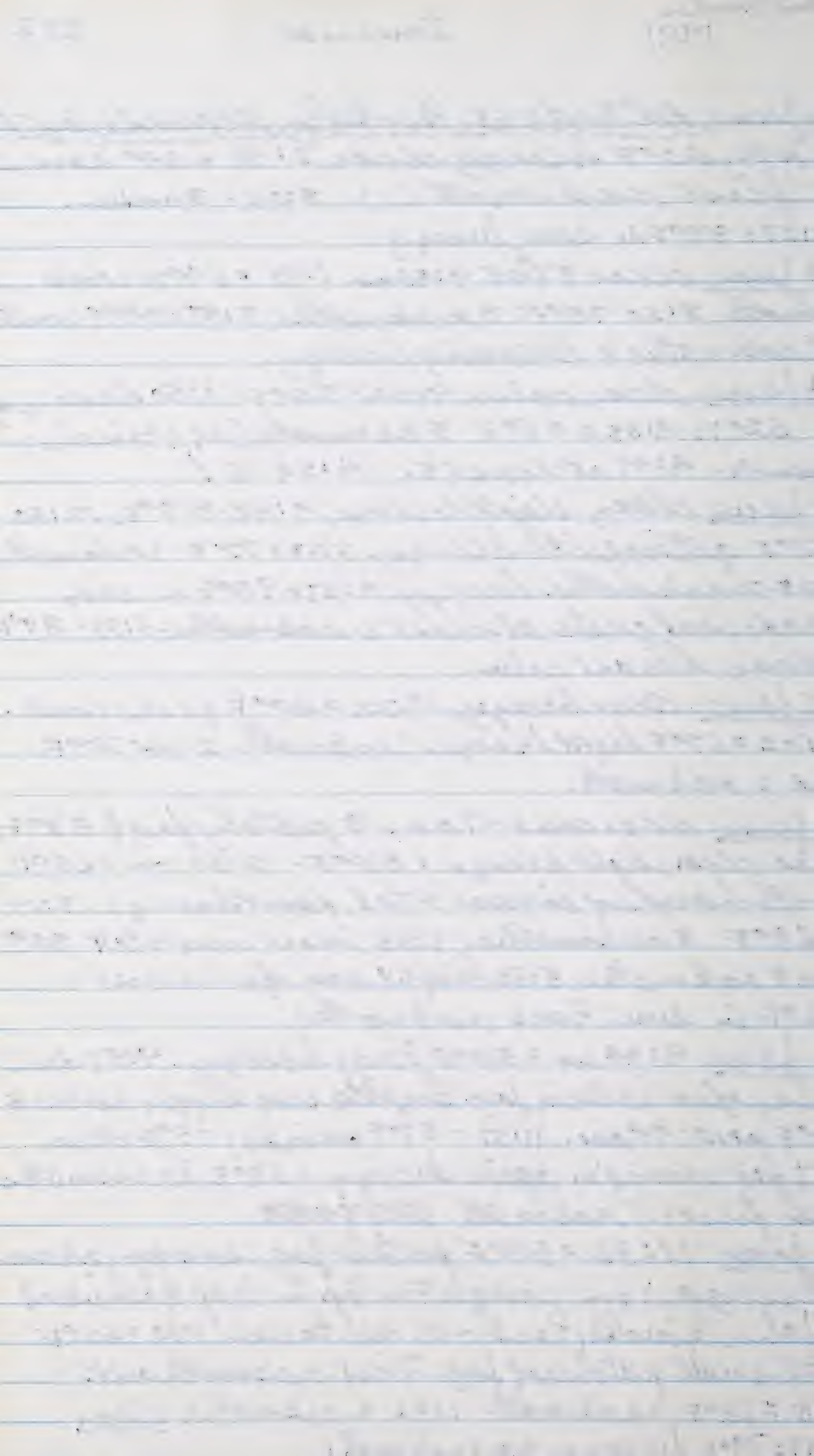
15 June clear, slight breeze, 9:42 = 58°F. 12:30
67°F getting quite breezy. 3:13 = 77°F 1 oak moth.
3:28 - 2 oak moths. breezy. 4:27 = 93°F in sun,
good wind gusts. at least 6 oak moths. 6:33 = 89°F.
clear, almost calm.

16 June clear breezy, 10:22 = 60°F feels cool.
1:02 = 67°F light breeze. 1 oak moth. 2:34 = 70°F
and 1 oak moth.

17 June clear cool - 7 am. 8 patchy fog & 53°F.
9:20 clear, light breeze = 56°F. 12:30 on = 65°F
with bands of cirrus S to N, faint breeze. 3:14
= 68°F 3 oak moths. 3:55 more cirrus S to N 85°F
4 or 5 oak moths. 5:55 bright sun, few cirrus -
86°F in sun. 5 or 6 oak moths.

18 June 9:44 am = 54°F Fog, breezy. 9:57 dull
sun, few holes in fog. Brighter sun, bigger holes &
59°F at 10:44 am. 11:37 = 57°F windy; 75°F clear
2:17 fog coming in again. breezy = 64°F. No oak moths
2:26 first (1) oak moth. ~~11:37 = 57°F~~

19 June 11:36 = 59°F patchy fog, sunny all am.
breezy 1 pm caught Fox sp. in trap & delivered
to John Hinchey Park - 1/2 mi to NW. 1:30 = 61°F
still small patches of fog. First oak moth out.
2:55 = 65°F 1 oak moth. 2:56 2 oak moths. clear
3:47 = 79°F breezy 2 or 3 oak moths



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20 June, del Norte St., Berkeley, Alameda Co., Calif
9:53 = 66°F, clear with feathery cirrus from
S & breeze. 2:35 more cirrus = 67°F. 2:39 first
oak moth; 2:41 more 2. 3:31 = 74°F 4 oak moths
3:44 = 50-m

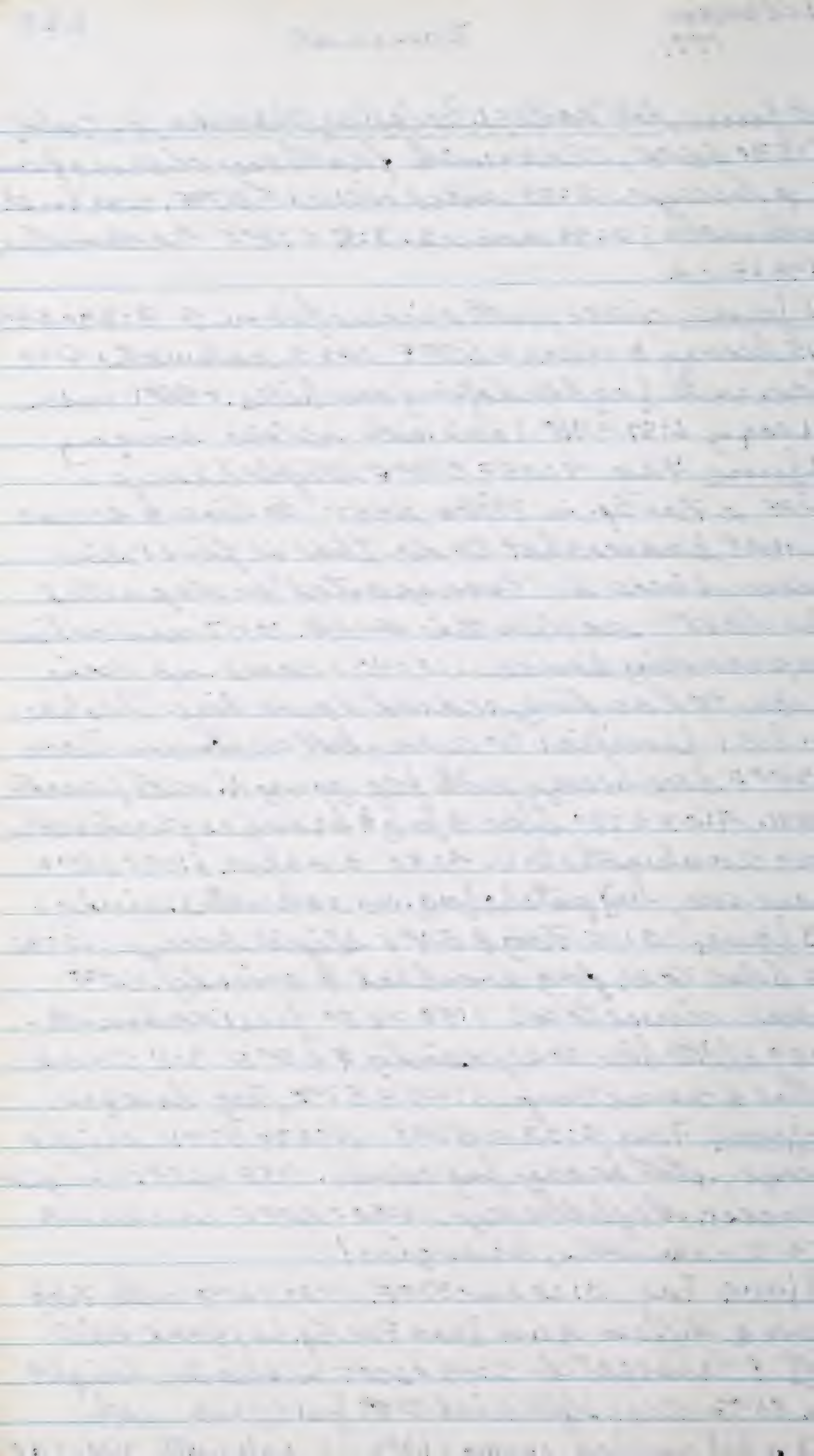
21 June, clear with cirrus from S 8:38 = 54°F
2:15 breezy & clear = 62°F 101 2 oak moths 6:19
Clear with fog enveloping overhills. = 86°F in sun
breezy. 6:37 = 86° 1 oak moth nuthatches singing

22 June Fog 9:05 = 54°F slight breeze.
10:14 a Fox Sp. in Pittos next to line & seems
to not know what to do. This is first doc
seen since I 'transported' or departed
the last 1 earlier this week. 10:17 now on line
approaching house. 10:40 1 came up down
pipe to landing, scared down line. This has
to be 1 familiar to area, but cautious. Noon
= 59°F very breezy with fog going N. with periodic
sun. 4:03 = 73° blue & fog & breezes; 2 oak moths.
4:19 2 oak moths to N. 4:30 2 oak m. 6:09 = 66°F
more sun, big patches fog. no oak moths. windy -

23 June 10:15 Fog & 54°F slight breeze. 12:36
1/3 blue to W, fog overhead & windy. 60°F
some cirrus to W. 1:58 = 63° first oak moth.
2:39 a little blue to W, windy & 63°F 3:11 2 oak
moths & same temp. 5:25 = 57°F, Fog, breezes.

24 June Fog 8:23 = 51°F 11:33 = 57°F slight
breeze, still heavy fog cover. 1:58 = 60°F bright
across, slight breeze. 3:50 = 60°F 1 oak moth.
3:54 2 oak moths, breezier!

25 June Fog 10:20 am = 57°F. 11:30 = 61°F with fog
cover & diffuse sun Noon Fox Sp. in, good tail
not 1 transported. 2:45 = 62°F in shade, bright
sun 85% clear, light wind. 2:57 first (1) oak moth.
3:43 a bit more fog, sunny = 68°F; 1 oak moth 3:49 = 1 a.m.



Christmas
1991

Journal.

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25 June, del Norte St., Berkeley, Alameda Co., Calif.
30. m at 3:51. 3:54 = 4 abn moths. 5:39 = 75°F

bright sun, 20% fog. 5:42 = 4 abn moths.

26 June Fog 9:55 = 54°F. slight breeze. 3:40

still fog over cast, no sun so far today = 58°F.

3:45 = 57°F 1 abn moth. 3:50 2 o.m.; then moths

5:49 = 53°F still fog & breezes. a very quiet day

27 June high stratus overcast, 7:56 = 56°F

calm. 10 am overcast, calm = 61°F. 10:38 May

be 2 Fox Sp. 10:56 are 2 Fox Sp. - 1 a well

hung on. This is new. 2:30 overcast = 66°F

afew brief light sprinkles - 1 abn moth.

2:54 2 abn moths. 3:24 2 o.m. 6:23 ^{over} calm = 60°F

28 June 8 am = 55°F since ± 3:30 am a

light rain falling, calm, small puddles

on landing. 10 am = 58°F rain almost stopped

10:32 = 60°F the lightest of mists now - 1 abn-

moth! (?) 10:55 sun out, 62°F. 11 a.m. = 61.2"

RAINFALL. 12:30 light rain again. Stopped

sharply, 3:29 = 63°F overcast, diffuse sun. 3:54

2 abn moth. Saw clouds scudding, ^{wild} breezes

29 June overcast, 9 am = 55°F now a very light

drizzle. 12:20 overcast, calm, 66°F. 12:27

sun out but can't see any blue. 12:49 off to

w same blue, no sun now. 1:30 almost clear!

63°F. 2:28 clear = 65°F, slight breeze. 2:33 1 abn

moth. 3:17 = 68°, 1 chunk of fog to NW. 2 abn m.

4:15 = 87°F in sun, slight breeze 4:38 = 90°F in sun

3 abn m., calm. 4:39 - 4 abn m. 7 pm = 87°F clear,

but small patches of fog forming overhead.

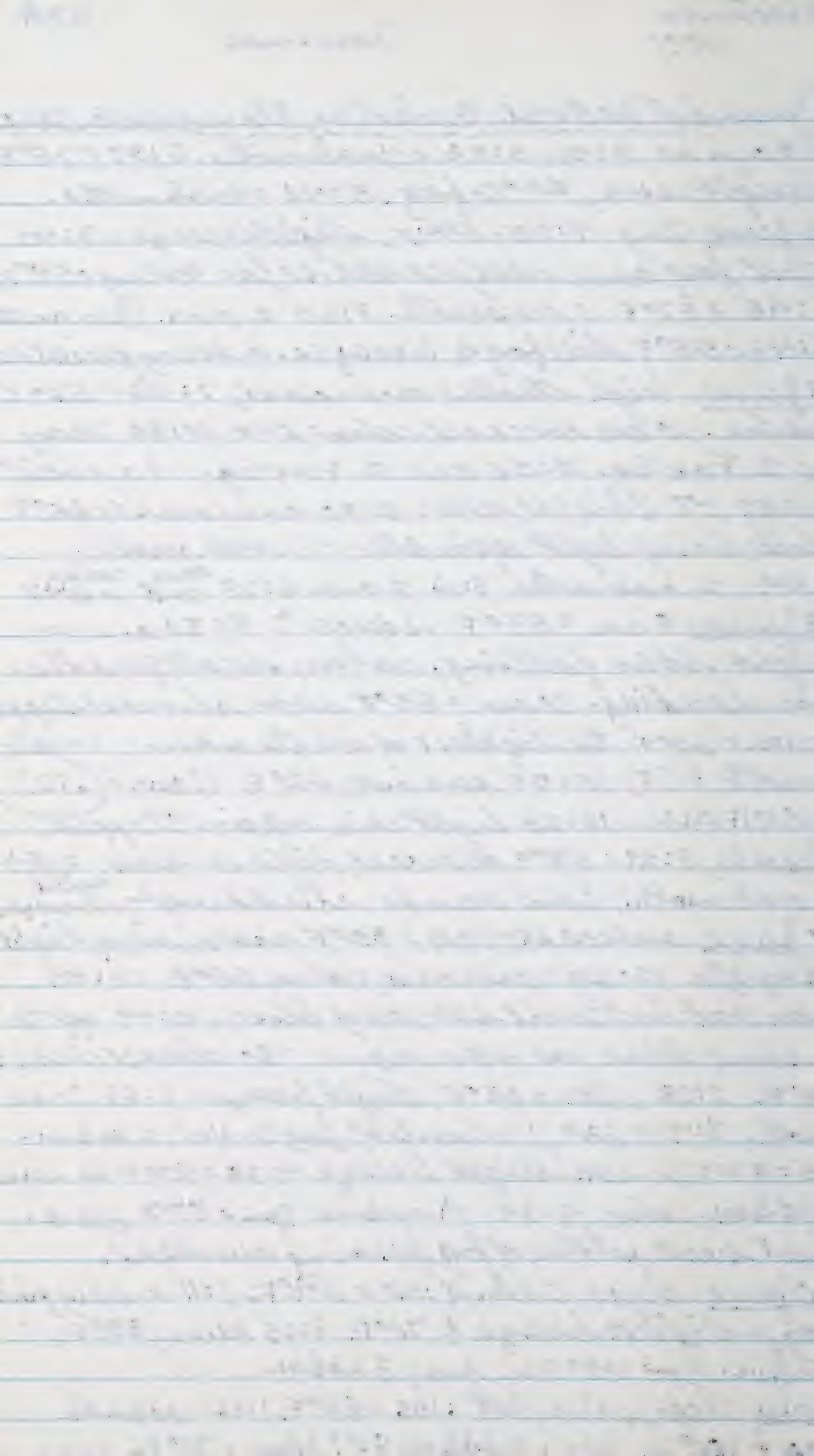
30 June clear, calm, 9:50 = 64°F. 1:11 a very quiet

day, = slightest breeze & 76°F. 3:23 same, 83°F, 1

abn m. 4 pm = 100°F in sun; 3 abn m.

1 July clear, calm, Nat 1:52 = 95°F. 1:56 - 1 abn moth

4:04 = 106°F in sun; 2 abn m. 8:07 same; 76°F in sun.



Christman
1991

Journal

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2 July, del Norte St., Berkeley, Alameda Co., Calif.
Clear, calm, 8:10 = 63°F.

3 July Anne up yesterday afternoon,
& this a.m. till 11 am. Not yesterday with
fog to W. so variable. At 8 am fog down
in Albany. Clear here 11:30 = 64°F; hardly
a breeze. 2:33 calm, 66°F in shade. 3:15 = 68°
calm, 1 aabm. 3:39 74°F. 6 pm = 89°F in sun, quiet.

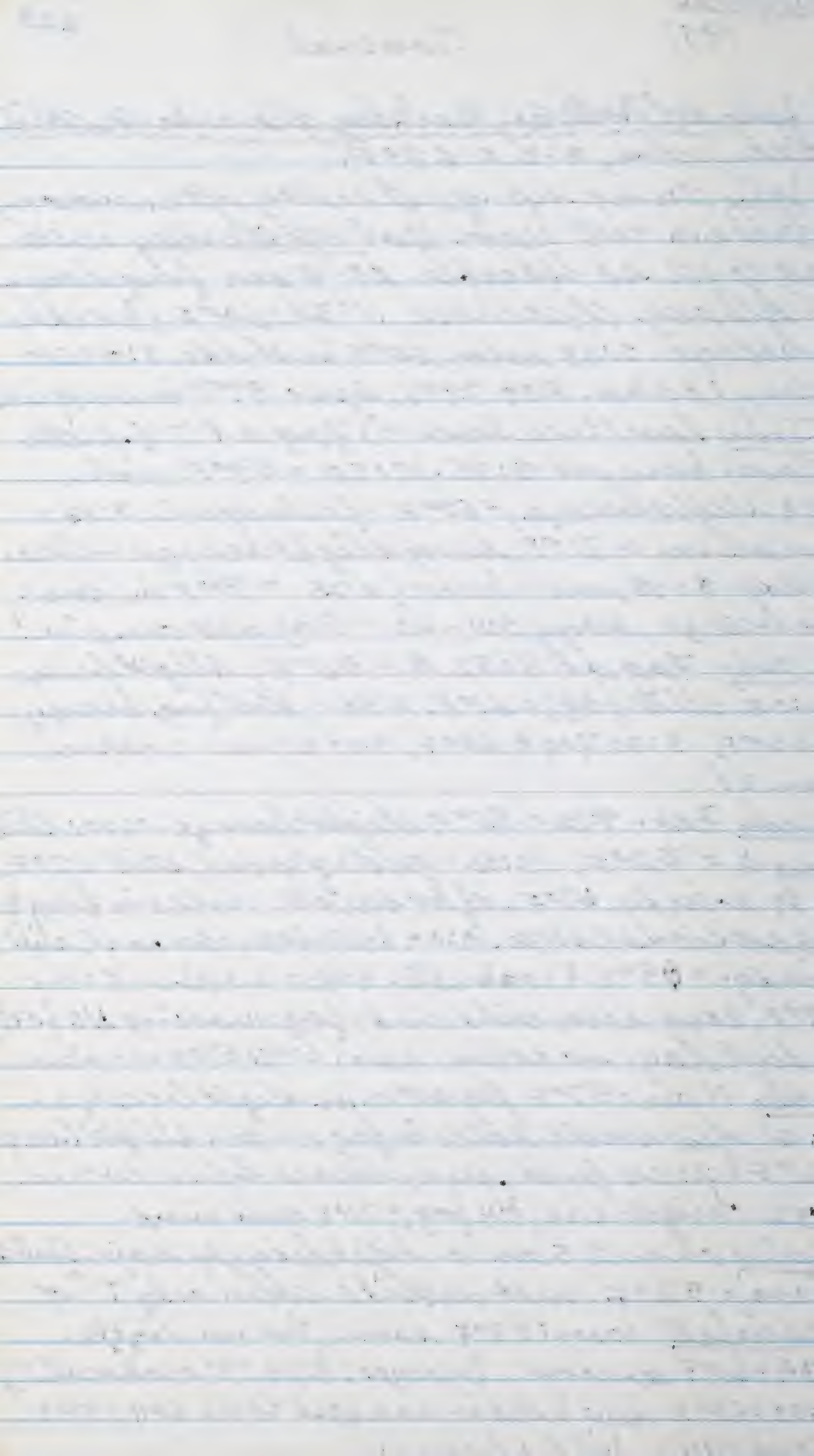
4 July low (tree level -) fog at 7 & partly
clear here at 8:45. 10:30 = 59°F calm
1:38 slight breeze, = 67°F - feds cool. 3:33 -
2 aabm. = 71°F very slight breeze - clear
since 8:45 am - here! 6:25 = 84°F in sun.
no breeze, hazy SW - W. - Fog will come in!

5 July fog at 9:52 & = 56°F, slight breeze
12:03 still fog; = 61°F. 2:35 - still fog, breezy,
= 62°F. 3:30 fog & 66°F. 3:37 same - 1 aabm.
then 2!

6 July fog - 9:12 = 56°F slight breeze. 12:01 still
fog & = 62°F. 12:56 - gusts of wind, still 62°F.
3:39 windy, 67°F, a few small holes in fog &
occasional sun. 4:09 dull sun, overcast, still
windy. = 65°F & 1 aabm. 4:46 = 2 aabm. 6:16 =
59°F, hazy sun, mild wind, fog moving NE fast,
a dull day. no aabm. now. 6:42: 57°F = 1 aabm.

7 July 11 am = 57°F fog all a.m. slight breeze.
2:16 a few small holes in fog W - SW, slight breeze
= 66°F. 2:24 first sun, more blue to SW.
5:32 bright sun, 3/4 fog, = 71°F mild wind.

8 July about 5 am a light drizzly rain started.
9 am = 52°F, wet outside, calm and "T" of
Rainfall 10 am = 53°F same, tho no drizzle.
2:34 = 61°F overcast, breezy. 3:28 1st aabm. (1)
3:39 = 63°F a few holes in overcast to W. 6:44 = 57°F
cloud cover, bit of a breeze.



Crustman
1991

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9 July, del Norte St., Berkeley, Alameda Co., Cal.
Fog, 8:36 = 51°F.

14 July returned from NTA in Reno. Fog
at 1:45; 3 pm = 64°F fog.

15 July 9:30 pm fog clearing up, calm, 58°
2:45 clear, but for a bank of clouds off to W
= 65°F. 3:23 big chunks of fog over, still
sunny & = 67°F in sun. 7:37 pm a bright sun
behind thin drifting fog seeds; = 59°F, slight breeze.

16 July Fog, 10:13 = 61°F slight breeze. 11:17 am
small patches of blue, diffuse sun; = 65°F
a low pressure front passing thru.
stratus clouds above the small patches of
fog. 1:22 only bits of fog with wispy cirrus
1/3 blue = 68°F. 6:50 was almost clear; with
feathery cirrus; now stratus moving in
at 900F in sun.

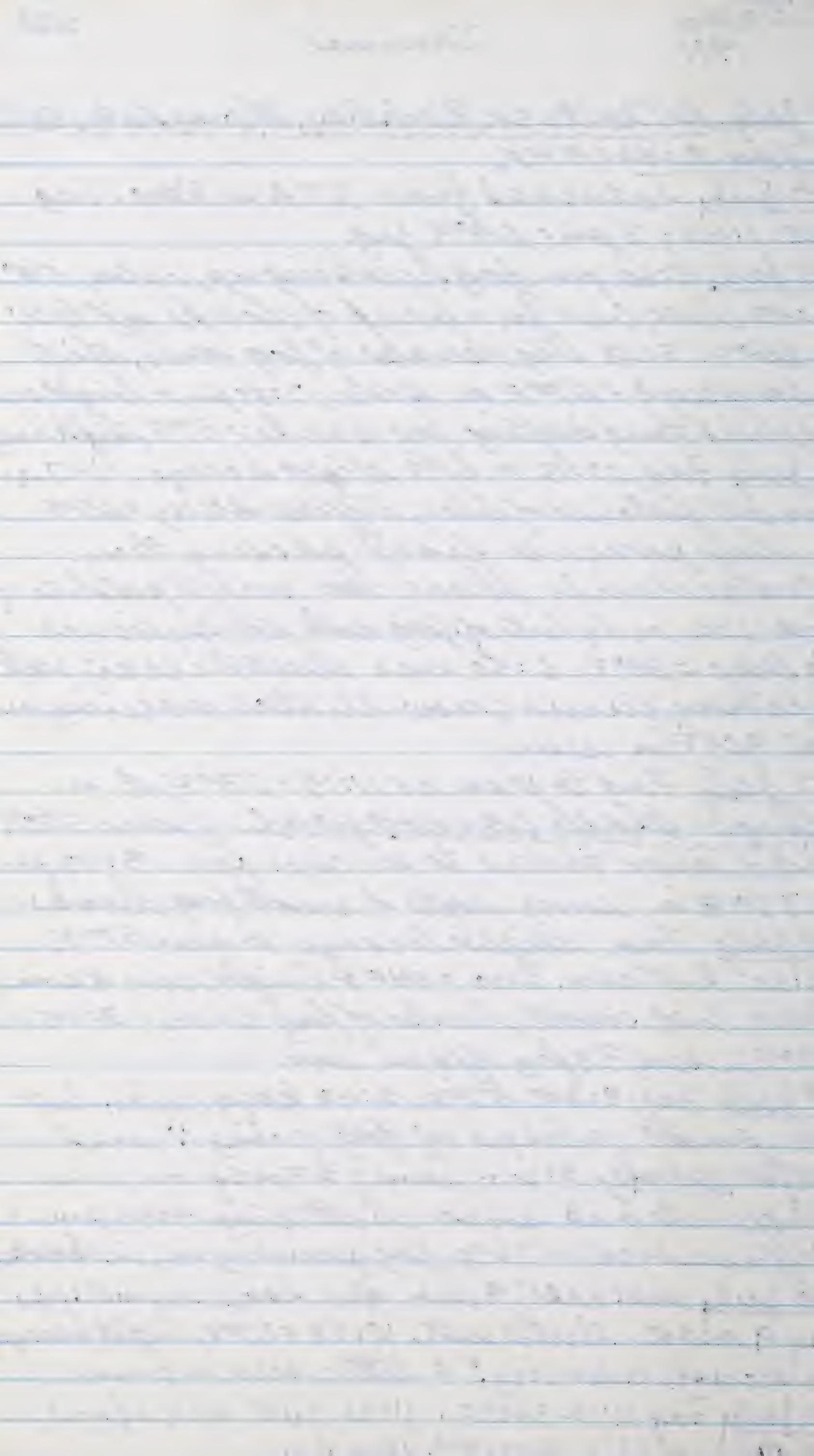
17 July Fog to 10 am at 11:15 = 63°F & a
large black cumulonimbus from STON
100+ over trees to W. Clear pm. 3:45 pm
= 77°F in sun; rafts of small fog chunks.

18 July Fog, slight breeze 10 am = 57°F.
12:22 dull sun. 2:10 = 64°F bright sun & some
blue, but small chunks of fog to NW. 3:45 =
72°F in sun, 3/3 fog off & in sun.

19 July Fog; 8:34 = 57°F. 2:48 hazy clear, but
for small wisps of fog, going N and
rather windy. 3:20 = same; 2 Foxes on line
chase into oak some chattering 4:45 pm =
diffuse sun, = 73°F fog pouring in, in chunks.

20 July overcast, 8 am few large raindrops
by 9 more, streets wet. 10:53 = 57°F, light breeze,
overcast, now dry! a little sun in p.m.

21 July Fog 11:12 = 62°F. 11:26 dull sun a few
patches of blue, 4:02 = 82°, hazy clear.



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21 July, all White St., Berkeley, Alameda Co., Calif.
5:56 pm hazy clear - 83°F in sun.

22 July Fog 9:37 = 60°F, 12:04 sun out a few
small holes in fog. 3:42 = 72°F fog returning
5:25 complete Fog cover, diffuse sun - 1 ten hole

23 July Fog. 9:39 = 57°F. Sun out \pm noon 3 pm
67°F whiffs of fog returning. 5:33 fog cover,
dull sun, breezy - 67°F in sun

24 July Fog 2:25 pm sunny a few holes in fog
breezy & 71°F in sun. 6 pm = 61°F breezy fog

25 July 8:45 = 56°F slight breeze & Fog.
10:52 am dull sun; a few holes in fog = 62°F.

26 July fog. 9 am first sun with holes in fog
& = 59°F. 9:43 = 59°F almost completely clear
3:30 = 68°F $\frac{4}{5}$ fog slight breeze

27 July 10:21 a.m. Fog & 58°F hardly any
breeze. Fog all day

28 July 10:16 = 59°F Fog. 6:38 clear from 2
- 5; now = 69 in sun fog back.

29 July fairly low fog at 6:30 am - 8:34 = 55°F
9:43 a.m. = dull sun out, still. P.M. few feathery cirrus.

30 July Fog. 9:26 = 61°F 9:58 dull sun. 10:05
now holes in fog. 2:09 = 64°F clear except for
few whiffs of fog. 3:37 $\frac{1}{2}$ of a aspect is returning fog
6:10 = 62°F complete fog. Ravens & Fox Sq. feeding
6:14 2 Fox Sq. antagonism between.

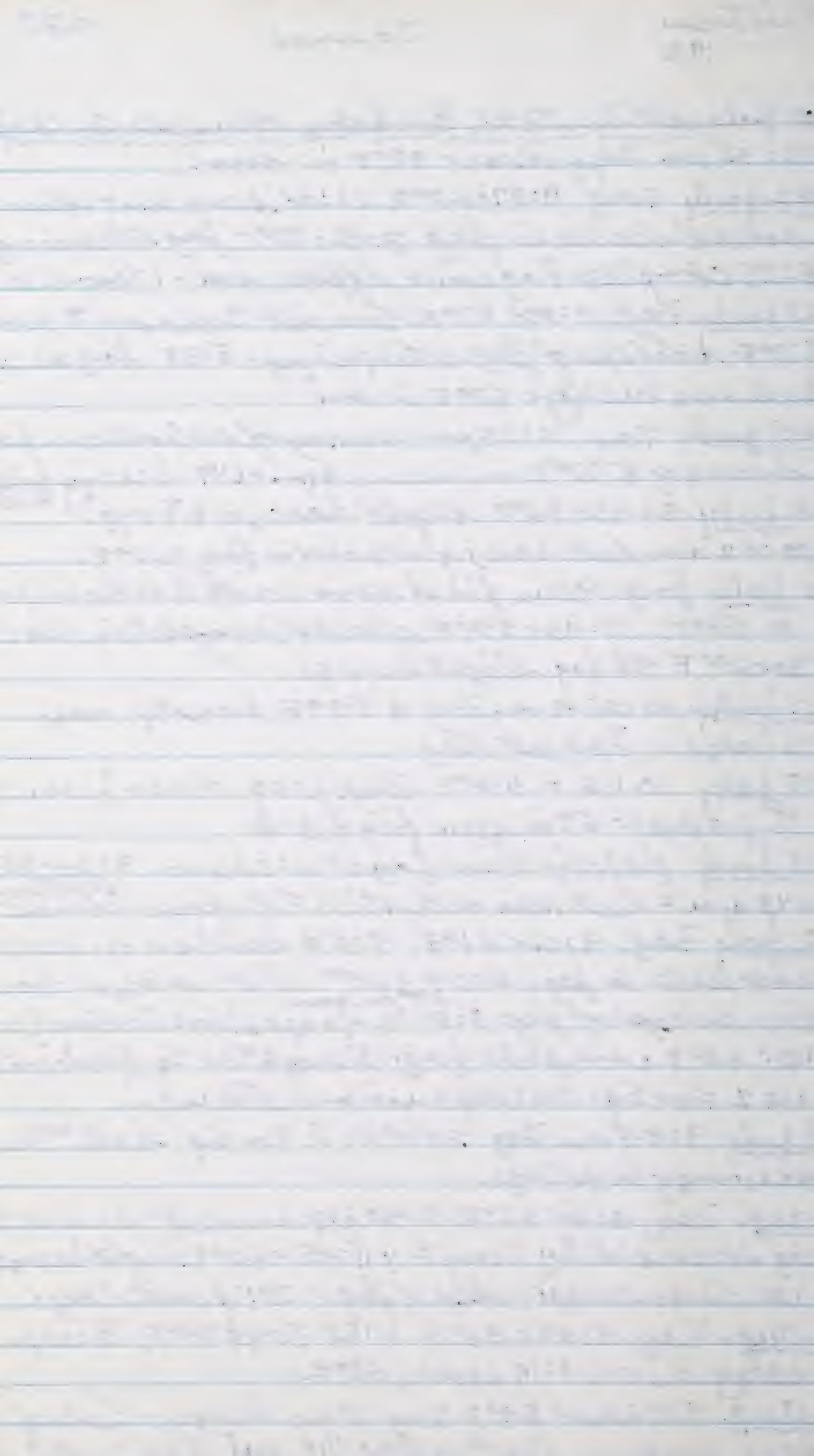
31 July 9:54 am Fog. = 58°F. 2 Fox Sq. both rather
scrappy in pidge.

1 Aug. Fog, 8:16 = 57°F. 9:40 off on dull sun = 60°F.
Fog dispersed by 11 am \pm ; 11:45 = 60°F slight breeze

6:21 clear except whiff of fog - 71°F. quiet day.

2 Aug. Fog. 8:35 = 55°F 11:30 Fog & 59°F. 2:00 pm
breezy = 61°F. 3:15 same, 62°F.

3 Aug. 9:52 am = 54°F Fog. 10 am breezy - Lots of
dead leaves in street gutters tho not like Oct.



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3 Aug., del Norte St., Berkeley, Alameda Co., CA
2:02 = 62°F breezy 70 G!

4 Aug 7ag. 9:45 am = 56°F breezes. 3:26 pm
breezy, 63°F only brief sun so far. 5:58 =
58°F 7og slight breeze.

5 Aug Fog, 8:04 am = 55°F. 10:05 = 60°F occ.
breezes This is apparently an 'overcast'
- acts like clouds. A weak low pressure
front is going thru. 3:24 windy clear,
few bits of fog going inland. = 69°F.

6 Aug. 8:29 am overcast, calm & 56°F Every-
thing wet this am. dew dripping heavily
at 2:45 am. 1:03 dull sun. few holes in fog 67°
3:30 pm occ. bright sun, windy & 72°F.

7 Aug 7ag & 61°F at 8:42 calm. 9:07 holes in
fog with dull sun. 9:57 just about clear, bright
clear sun at 62°F. 10:24 lots of feathery ^{cirrus}

8 Aug. low fog at 7 am clearing & sun at 8 am -
61°F 1:04 = 69°F in shade, sprinkling clear.
6:29 pm CLEAR, calm. in sun. 98°F 8:28 almost
dark 68°F clear

9 Aug 7ag at 6:30 am 8:12 = 62°F 7ag & dull sun
slight breeze. 8:17 1/3 blue! 8:47 just small
bits of fog left. calm & 63°F. Yellow leaves in
drum dance on car hood at 6:53 am. busy
most of day. 6:10 = 83°F in sun, clear calm ^{same} haze

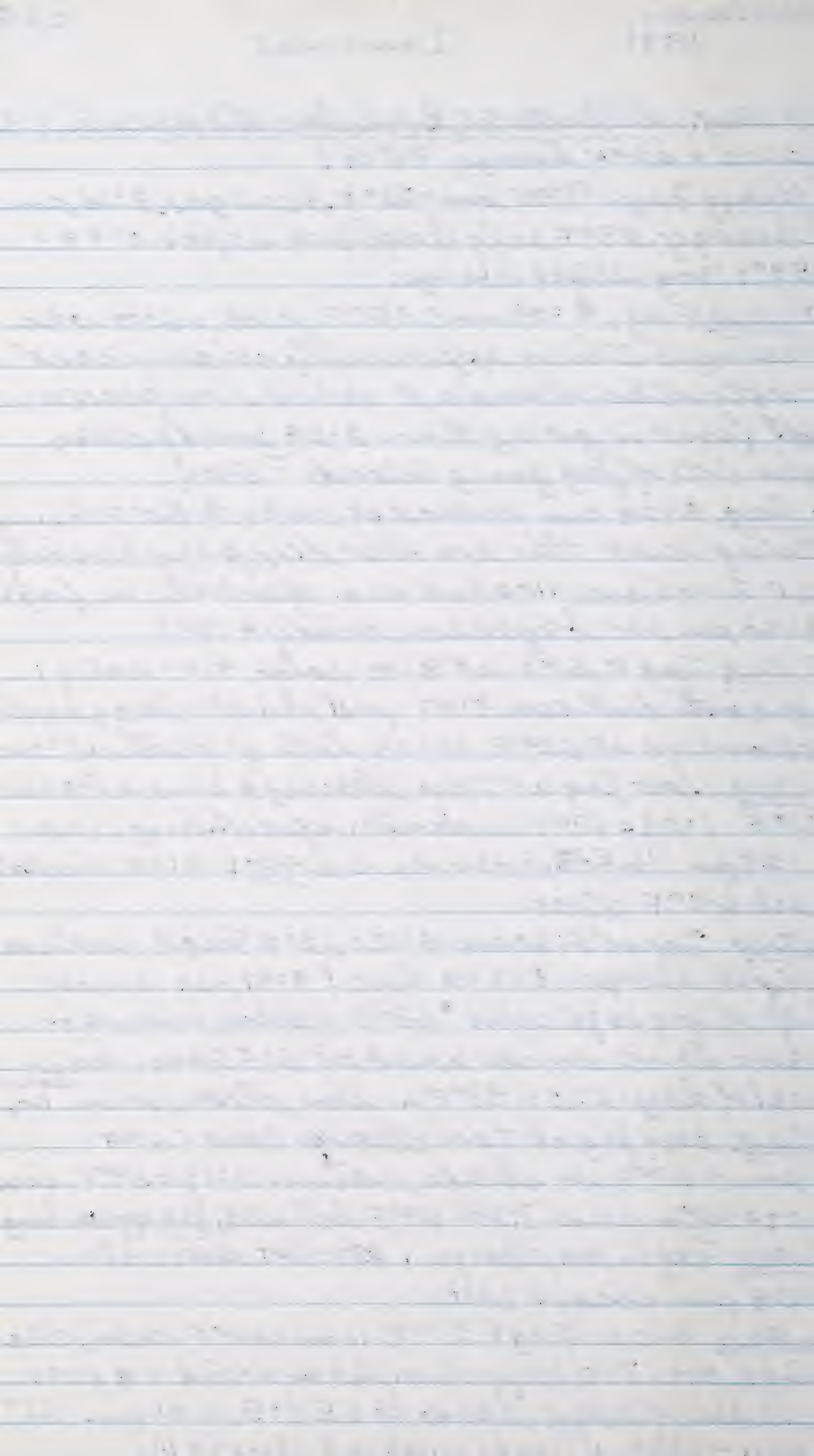
10 Aug. hazy fog at 7 am clearing 9 am = 60°F.

1 pm = 69°F in shade, calm. 2:13 = 69°F, shade
4:07 = 90° in sun. 7:24 = 64°F dull sun, fog approaching.

11 Aug. 7ag in am, clear pm. 6:57 = 60°F clear calm.

8:08 pm clear & 60°F

12 Aug 8:06 7ag & 57°F. 11 am = 63°F, calm, clear
since 9+. 3:17 hazy clear, some wind = 69°F
a bank of wavy clouds to SE to S. 8:04 pm = 62°
calm - layers of clouds overhead, clear to W.



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13 Aug, del Norte St, Berkeley, Alameda Co., California
Rain started at 4:11 am. 8:30 = 65°F com-
plete minus cloud cover, occ. sprinkles
and = (.15") RAINFALL. 11:20 am few holes
in the ? strato - minus. same dull sun.
= 77°F. 12:15 = 80°F in shade, calm bright sun
with thin stratus, dark to W. 2 pm 85°F, breeze
& seeltry! high ripply stratus heavy to N
occasional rain on St N. 4:15 clear, same
wind, clouds way off to W. = 111°F in sun
6:33 clear, calm = 102°F in sun.

14 Aug 8:24 am 65°F cumulus clouds from S
with heavier overcast to W. calm
9:09 complete ^{dull} overcast now with no breezes
& 62°F. 10:47 am = 65°F overcast cumulo-
stratus, etc dark to W & over hills. 1:04 = 63°F
complete dull overcast, getting dark! 3:41
after light sprinkles. 6:29 dark cloud cover
cumulo-stratus-minus; = 59°F. calm.
6:49 Sprinkles

15 Aug 8:50 am = 60°F slight breeze & complete
cloud cover. 12:20 = 63°F calm, almost clear
1:54 = 64°F clear, breezy. 3:44 pm 78°F in sun

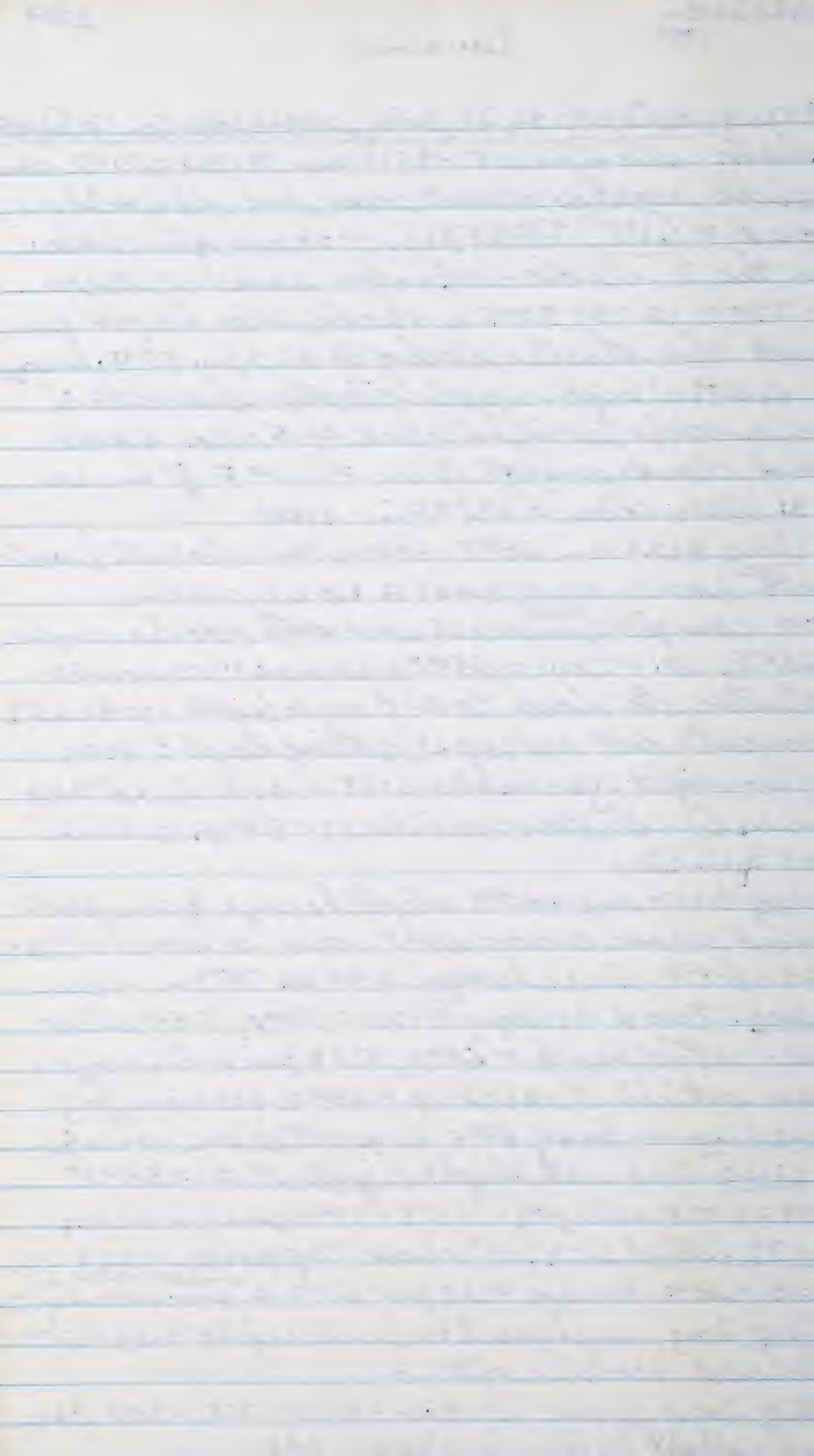
16 Aug. Fog & breezy 9:26 = 59°F. 11:54 dull
sun - still fog & = 65°F. 3:08 pm a breeze,
never entirely cleared up = 68°F. 6:22 pm fog
raining in fast, 60°F in partial sun. windy.

17 Aug Fog with slight drizzle. 9:21 = 55°F
10:49 = 68°F, still fog. 11:53 = 59°F same, a breeze.

12:37 filled D-4, 4" above tap perch. 1:22 Fog.
2:15 = 65°F breezy. 4:25 pm = 66°F in sun ^{small holes in} windy fog

18 Aug Fog, condensation all night 9:13 = 65°F
cleared awhile after 3

19 Aug Fog & calm 10:15 am = 59°F 3:37 = 70°F hazy
sun, slight breeze, after holes in fog.

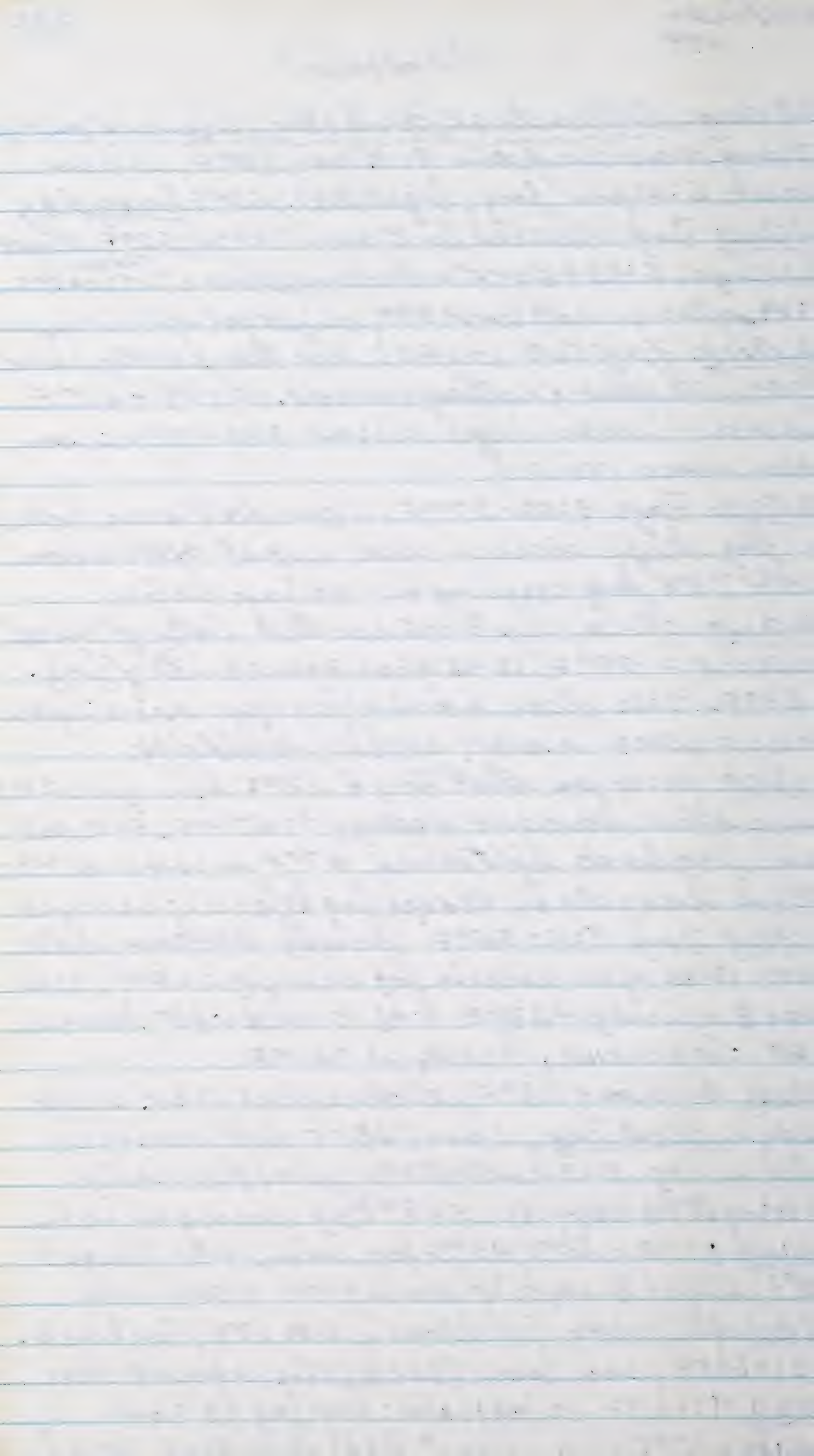


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- 20 Aug. del Norte St, Berkeley, Alameda Co. CA.
Fog came again 3: clear, 68°F. warm
aut. 6:21 pm fog; light tow., 62°F. busy day
- 21 Aug Fog cleared by 10 am. 11:02 = 62°F slight
breeze. 2:43 = 67°F a breeze, clear. 7:07 = 67°F
8:14 after sundown = 59°, slightest of breezes.
- 22 Aug. Fog till 10:30 I am then pretty much
clear with few fleecy cirrus. 10:49 = 61°F.
noon - more high cirrus. 3:30 = 73°F in sun
even more cirrus.
- 23 Aug. Fog. 9:33 = 57°F. 11 am. dull sun, holes
in fog, high cirrus. clear most after noon
6:48 = 73°F fog coming in - 1/3 fog. calm
- 24 Aug. clear by 8:45 am the lots of high
cirrus = 58°F. 12:56 a few cirrus & bits of fog.
= 63°F. 7:22 clear, bands of fog approaching near
to W. = 60°F a nice sunny mild day.
- 25 Aug. 12:16 pm still fog & 63°F breezy. 2:03
same blue, sun out breezy +, 67°F. 3:27 dull
sun, fog back, light wind, 67°F in 'sun'. 6:49 =
69°F in sun; clear, except fog to far W; breezes.
- 26 Aug Fog, 9:11 = 56°F windy. 10:49 a.m. dull
sun. 12:36 a few holes in fog breezy = 63°F. 2:20
clear & windy = 63°F. 4:46 1/2 clear = 65°F breezes.
6:30 fog came, breezes = 61°F
- 27 Aug 8:46 am = 55°F; dew meter at 7:30. slight
breeze dark fog, 1 pm = 65°F dull sun. few
holes in fog. 3:13 = 66°F; 90% clear & windy.
6:41 bright tho hazy sun. = 65°F fog coming in, calm
- 28 Aug 8:28 = 60°F, 85% fog, calm. 4:42 clear &
73°F, slight breeze. No sun in 8:30 - 9:30 + windy
slow after noon till doves in 6:20 67°F, fog back.
7:21 = 65°F, sun low, clear & calm, a quiet day!
- 29 Aug 9:12 = 61°F 1/2 fog, calm; low fog at 7 am
12 noon: 67°F clear, calm. = first monarch to 5!



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29 Aug, ~~del Norte St.~~ Black day, Alameda Co, CA.
3:51 pm clear-calm; -92°F in sun. 6:46 = 73° same.

30 Aug. Fog & 60°F at 8:16 am. 8:20 sun out - few
hales in fog. 8:48 dense fog again. 1:02 = 65°F
clear-calm 6:09 clear, calm & 77°F .

31 Aug. 9 a.m. = 58° $\frac{1}{2}$ fog, clearing slight breeze
9:56 just about clear, band of cirrus to W.

12:34 = 66°F 1 Monarch over house to SW.

1 Sept fog till 8:30 am - warm day. quiet day.

2 Sept clear at 10:24 = 71°F ! no clouds.

11:27 see 1 Monarch to S below level of
aasb. 1 pm = 81°F in shade, calm 3:50 = 98°F

4:26 = 96°F same - 7:33 after sundown = 69°

3 Sept 8:45 am low fog & 58°F calm 10:10
dull sun; -61°F . 10:28 same blue & sun.

11:16 clear & 63° faint breeze. 1:07 = 65°F calm.

1 Monarch to S at 11:30. 3:29 = 70°F fog fair W.

4:22 Fog in = 84°F same sun. 6:13 Sock in = 60°F ^{calm}

4 Sept. 8:03 fog & 55°F 10:44 clear & 62°F &

1 Monarch, below aasb level to SE. 11:20

1 Monarch over aasb from W over house to ^E.

6:14 = 73°F in sun; calm, but bits of fog returning

5 Sept 8:21 = 57°F ; Fog. 10 am same dull sun

= 61°F . 11:20 = 62°F $\frac{1}{2}$ sun. 12:21 band of cirrus

to W. 1:08 1 Monarch over house to E. 4:21 clear

& 85°F in sun. 6:30 fog hales in, raining; -63°F

6 Sept 8:38 am fog; 58°F . Four or 5 clusters

of white flowers appearing on Pittosporum

to NW of house. 10:42 periodic wind & 61°F .

12:43 still overcast & windy. On the news

at 11:40 - thunderstorms & lightning in the

Salinas Valley & about San Jose. 3:41 pm

windy, fog to N & bits of sun = 69°F . 6:16 fog, low

planes, again 61°F slight breeze. } 1 Monarch

over
7 Sept fog - 59°F . 3:28 - $\frac{1}{4}$ clear breezes house.

[The text on this page is extremely faint and illegible, appearing to be a list or series of entries.]

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8 Sept, Del Norte St., Berkeley, Alameda Co. California
9:08 first sun thru fog - 59°F.

9 Sept dense high fog, wind; 8:20 - 57°F

8:36 sun out bright against dark sky with
occ. brisk wind. 9 am - fog again dark.

11:30 its like a blustery winter day with
out the wet - some sun & blue & 59°F.

10 Sept 8:04 am clear except fog far to W;
53°F. Calm. 1:36 clear, 65°F. 6:pm very
slight breeze, clear - 71°F in sun

11 Sept Fog 10:10 am - 59°F. 1:37 - 63°F, sun
with bits of fog. 1 Monarch to SE below
level of oak. 4:32 - 68°F, clear with few
high thin cirrus. 6:40 complete fog - 57°F

12 Sept 7:30 52°F Fog. 10:38 hazy clear, 57°F
with a few bits of fog. 12 pm 1 Monarch to SE.
7 pm complete fog & 65°F. feels cold &

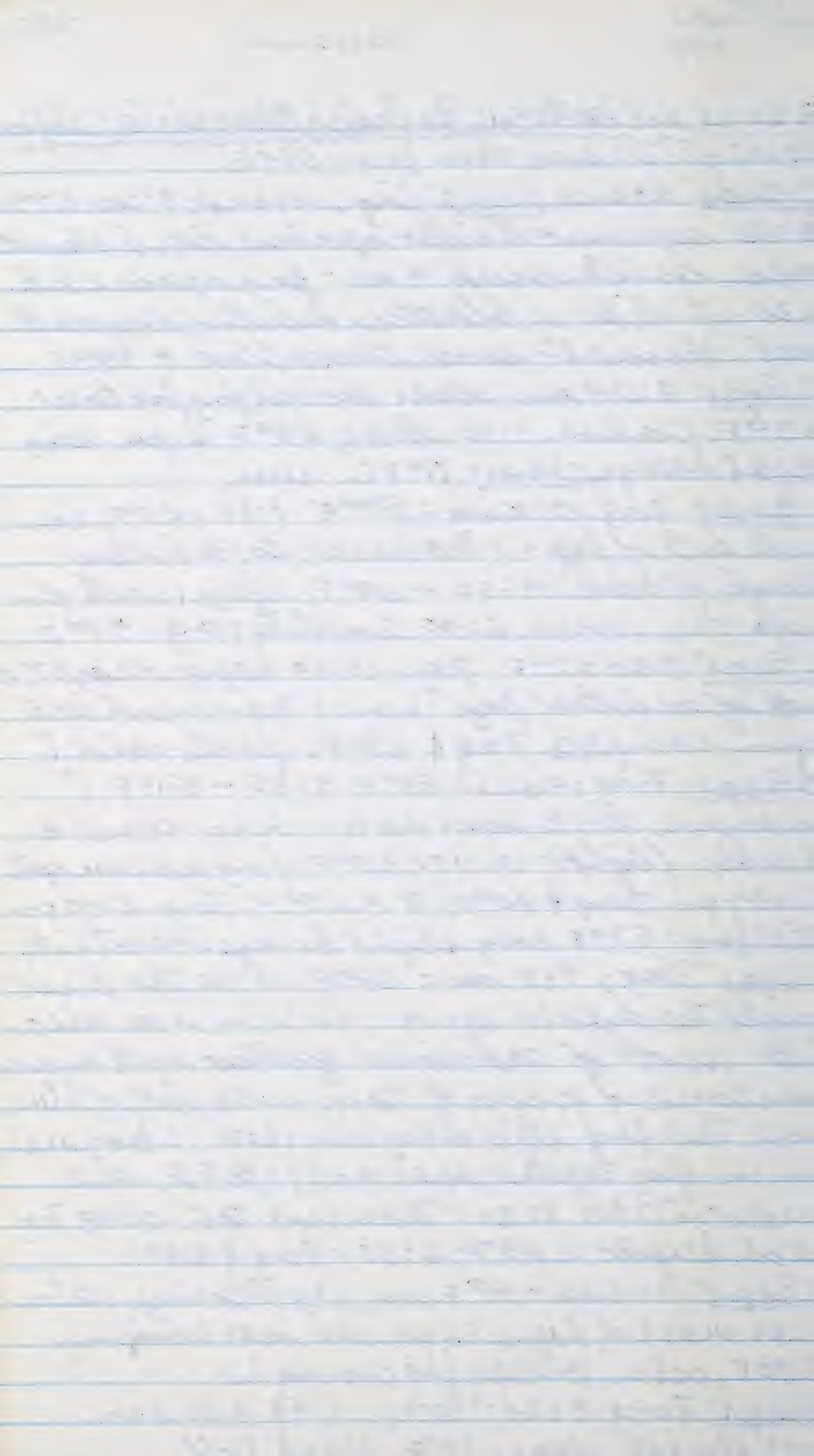
13 Sept Fog; 9 am - 53°F. 9:35 - 54°F 1°
Monarch to SE over oak - very slow &
feeble flight. 10:47 - 58°F fog no sun yet.

12:34 pm Fog & 60°F. 3 - 65°F Fog. 6:40 pm
still fog - 57°F very slight breeze. no activity

14 Sept Fog; 9:31 am - 55°F. 12:06 the first
bright tho diffuse sun - NW elm is an abso-
lute riot of cadmium yellow with minor
overtones of green & tan. 12:26 lots of blue
now tho fog still lingers. 12:31 2 Monarchs
from NW flew together over oak; 1 to SE, other
landed in Pittos. 3:20 1 Monarch to S. 3:43 fog
back, bright - 68°F 6:50 - fog & 54°F

15 Sept 9:15 am - 55°F sun, fog clearing, calm
clear most of day. 6:56 pm sun near horizon,
= 59°F, calm, wispy fog coming in.

16 Sept Fog, 8:30 - 55°F. 9:48 dull sun.
10:07 almost clear; 58°F. Filled D-K



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16 Sept., del Norte St., Berkeley, Alameda Co., Calif
1:14 - 66°F hazy clear, 1 Monarch circling
up overhead. 3:06 1 Monarch ~~to~~ over house
from NW. 3:36 - 79°F another Monarch to SE.

17 Sept low fog & 54°F at 8:24 am. can
barely see up st cedar. 9:02 of a blue
holes in fog & first bright sun. 9:15 hazy
clear! Doves, towhees & house finches
actively feeding. Steller jays very
prominent now; scrubs about but
not dominant. 9:39 1 Monarch over
house to E = 58°F sunny. 10:14 1
Monarch over house to W! = 61°F. 10:17
1 Monarch W to E over house! 10:18 another
Monarch to SE mid oak height 10:27 1
Monarch high over house to E. 10:28
Then 2 high to S. 10:32 1 over house to
SW. 10:36 1 over house to oak where
it alighted 8' from top in SW. = 61°F.
very calm. 1:12 - 69°F - 1 low to SE, M. i.e.
1:18 1 Monarch SE high. occ. cirrus in pm.
7:37 pm fog back: 56°F.

18 Sept Fog. 9 am = 55°F some sun seen holes
in fog 9:14 = 56°F 1 Monarch N to S. 9:50 =
58°F hazy clear. A Fox Sq in ivy near top of
pale across st where a nest was being
built by Sq. that fell & was killed by car
last spring. 10:36 1 Monarch low (50') to N.
12:12 = 60°F 1 Monarch at white flower of
Pittos. ; 1 to S over street. 1:17 clear & 63°F.
1:27 1 Monarch E over house - high & fast.
7:17 Fog back, 57°F J's making noise to NW.

19 Sept Fog, 8:44 am = 54°F. 1:07 = 62° still solid fog
3:20 Fog & 61°F. slight breeze. 5:39 Fog & 57°F 00 on
20 Sept 8:45 = 55°F Fog. 9:27 Fox Sq feeding near

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20 Sept, del Norte St, Berkeley, Alameda Co, CA
6:22^{pm} = 56°F no sun again! Solid Fog

21 Sept Fog. 9am: 58°F calm; same diffuse
sun. 9:18 bright sun from SE. 9:31 almost
clear, 59°F. 10:27 = 61°F 1 Monarch high
W to E over house, direct rather fast.
10:30 another Monarch from N, lazy flight-
glide, turned E over house. 10:40 1 Monarch
SW over oak, E over house, high strong.
10:44 1 Monarch from N over oak then to SW. 62°F
10:55 another Monarch over house. 11:05, 1 law
about oak to SW. 11:16 1 Monarch to S over oak.
11:43 1 Monarch over house to SW 12:04 1 Monarch
N to S. over oak 12:14 1 Monarch NW to SE
eye level, slow. 12:21 1 law & fast N to SE.
12:23 another up & over house to E. 12:24
1 over house to W; another NW over house to E.
Then a high 1 to SE. 12:29 1 Monarch low
up over house to SE, = 63°F calm.
12:42 another up over house to SE. 4:04
= 80°F in sun, Fog returning. 4:36 1 Monarch
NW to E over house; busy, 1/2 fog & 68°F.
6:53 pm thin patchy fog; 58°F calm no birds.
22 Sept Fog to 9:30 am clear to 4:30 - then fog²
23 Sept 55°F at 8:15 am Fog is rather low. 8:30
- fog even lower & thicker now. 9:12 a few holes in
Fog, no sun yet. 9:22 sun out! 9:41 haze clear.
10:38 first Monarch NW to SE over house,
= 61°F. 10:46 another Monarch over house.
11:17 1 Monarch NW over house to SE. 11:19 1 Monarch
over house to SE, 63°F. 11:48 am = 64°F 1 Monarch
over house to SE 12:37 1 Monarch sailing S. Then
another high overhead. 3:27 2 more 75°F must
7:21 clear, but fog line to W, calm = 58°F dark.
24 Sept clear 49°F at 7am & full moon to W

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24 Sept, Del Norte, Berkeley, Alameda Co., Calif.

9:11 bright clear, 59°F 1 Monarch N to S.
9:29 dim clear, 1 N to S over ab - Monarch.
9:52 = 63°F another Monarch to SE 10:15
= 64°F 1 Monarch high W to E over house.
10:18 1 Monarch, low N to S. 10:23 2 Monarchs
over elm NE to W, 10:35 1 Monarch S to
N over elms! 10:39 1 Monarch high NW to SE
10:56 am = 67°F 1 Monarch over house to E.
7:40 pm dark, clear - 59°F Nice clear day.

25 Sept Fog. at 8:39 = 55°F 10:10 am = 59°F

1 Monarch over house to NW, slow flight
10:14 dull sun. 11:03 a.m. fog gone, no sun
broken cover of cumulus - stratus
clouds = 62°F 1 Monarch to W; slight
breeze. 11:06 3 Monarchs to SW, gusts of
wind with yellow leaves falling! These
clouds must be from S - Baja, etc.
11:19 2 more Monarchs to S, SE. 12:03 heavier
~~and~~ cumulus getting darker with first big
drops of rain = 62°F. 12:29 Only a few
drops earlier, getting darker. 1 Monarch to N
= 70°F! 12:31 another Monarch to N. where
there is a patch of mae. Do they orient
by the sun, also wind from SW. 1:13 1
Monarch N, then W. 1:36 wind from N = 70°F
1:37 1 Monarch to N. 1:49 pm windy, first claps of
thunder 1:53 big drops falling. More thunder.
1 Monarch to S. getting darker. Fairly heavy
shower & much thunder at 2 pm. 3 - calm
everything wet with clouds W & N more
open to SW. 1 Monarch to SE Lots of leaves fell
off of NW elm today - many more have limbs now
evident 5:56 sunny = 61°F were cumulus, now
looks like fog returning.

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26 Sept, del Norte St, Berkeley, Alameda Co CA

8:26 am = 55°F Fog. 11:20 = 59°F FOG

1:44 = 61°F fog & 1 Monarch, slow & low

from NW to SE. Same sun at 5 PM. 7:30 58°F Fog

27 Sept Fog 8:31 = 55°F. 10:47 = 59°F. 12:39

= 65°F calm, few patches of blue in the fog

& 1 Monarch E over hawthorn-high. 12:53 pm

sunny. 1 Monarch ^{to} over oak. 12:55 1 Monarch

fast to S at eye level. a few breezes. 1:04 1

Monarch drifting high over elms to SE.

1:24 2 to S 1:28 1/2 blue sky sunny, 66°F

calm & 1 Monarch to S. 1:33 1 over hawthorn to E

4:45 clear hit haze, calm & 77°F

28 Sept 9:12 Fog & first sun. = 59°F. 9:25

broken fog, sun, 59°F and first Monarch

over hawthorn to SE — toward the sun.

10:04 = 60°F 1 Monarch to SE over hawthorn

— slowly. 10:10 another to SE. 10:27 1 Monarch SE

circus from NE. 10:40 3 Monarchs NE to SW

over oak, and 1 sunning on oak - N side

11:03 = 62°F 2 Monarchs high over elms

12:10 = 65°F 1 Monarch E high over elms

& rather fast. 12:16 another gliding S over elms

12:26 2 over oak to S. 2:44 1 fast to SE = 67°F

almost dull sun more dots of cirrus (from

S ?) 3:35 clear - more cirrus from SW = 75°F

29 Sept Fog cleared by 8 am. 9:18 = 59°F bright,

clear & calm. 9:22 1 Monarch circling then to S.

9:26 2 to NE, 1 M. from N to perch near top of oak.

9:29 1 M. over hawthorn to oak then. 3:56 clear, calm &

94°F. 3:59 1 fast & up over hawthorn to E = Mon.

4:06 1 Mon. to SW below level of oak. 4:12 1 Mon.

rather slowly to SE over hawthorn. 4:14 1 Mon.

sailing fast SE to NW high ! 6:37 clear & 62° almost

sundown. 7 pm almost dark. a quiet "October" day

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30 Sept. all state st. Berkeley, Alameda Co. California
low fog at 7; 8:33 higher, fog, 54°F

9:58 still fog, darker & 55°F. 11:47 am
= 59°F FOG. 12:5 = 63°F, fog & first Monarch
high & fast over oak to S. 1:26 1 Monarch
to NW over hills, followed by 2 more!
1:32 1 Monarch over house to SE. 1:34 first
dull sun. 1:44 2 M. to SE over oak. Nice
sun, holes in fog & 65°F. 1:46 1 high sailing W.
1:47 2 to SE over height, then 1 to N. Then 2
from E over oak & down - Perhaps it's all
2 or 3 just flying randomly about my
attractive house! 2:05 more sun. Have
seen 8+ in all directions, same high, same
low - no pattern. 4 pm = 65°F a sheet & band
of cirrus from W; then fog in quick.

1 Oct 8 am fog; 9 am = holes in fog with
makewind clouds & 59°F and a long
saw of geese to NW! (sp.?) 9:44
first dull sun. 9:58 fog breaking up & 59°F.
10:45 = 60°F First Monarch to SE. Clouds
to E. 11:15 = 61°F 2 more M. hazy clear. a
very soft day. 11:23 + 2 more Mon. + 1 high
to SE slow flight = 61°F. 1:03 = 64°F after
M. 2:08 = 67°F clear & bright. 6:03 clear = 67°F.
6:07 1 Mon = 69°F to SE

2 Oct low fog, 8:30 = 55°F 8:57 Fox Sp. carry-
ing acorn from oak up line & into Pittos.
So - same storage. 9:12 am dull sun from E.
= 58°F. 9:14 same blue over head. 9:33 = 58°F
hazy clear, first Monarch high, slow.
9:45 am = 2 more Mon. to S. 10:08 several
more Mon. = 60°F. 10:47 am a few more M. high
to S.; 1 up & landed on white flower of Pittos.
11:10 several more times Fox Sp. - across to Pitt.

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2 Oct., dd Route 91, Berkeley, Alameda Co., CA
11:15 seems to be few more man.
today than previously. 12:14 2 to N.
1:30 bright clear, 67°F. 6:28 pm 64°F clear
calm, almost sundown.

3 Oct hazy clear at 7am 8:30 clear & 53°F
down windshield for first time this fall.
8:35 am first Monarch over house to SW! 9:06
= 59°F 1 Monarch to SE over elms. 9:58 2
Monarchs chasing each other about oak. So
far this am have seen more in 1 hour
than any previous 1 hr. - 15 at 70! 10:24
= 65°F this in shade - probably much warmer
in exposed areas. Calm. 10:50 Again 2 chasing
over the oak, 3:23 = 84°F. 4:12 = 97°F in Sun.
5:58 = 71°F calm, no fog; 1 Monarch.

4 Oct 6:45 am very low fog (window-oak)
8:43 = 54°F. 11:47 60°F Out most of am
11:47 1 Monarch over oak to SW still Fog.
cleared 12:30 ± 3:07 = 65°F calm. Fog hangs
to W, etc. 4:13 = 64°F 2 high to SE.

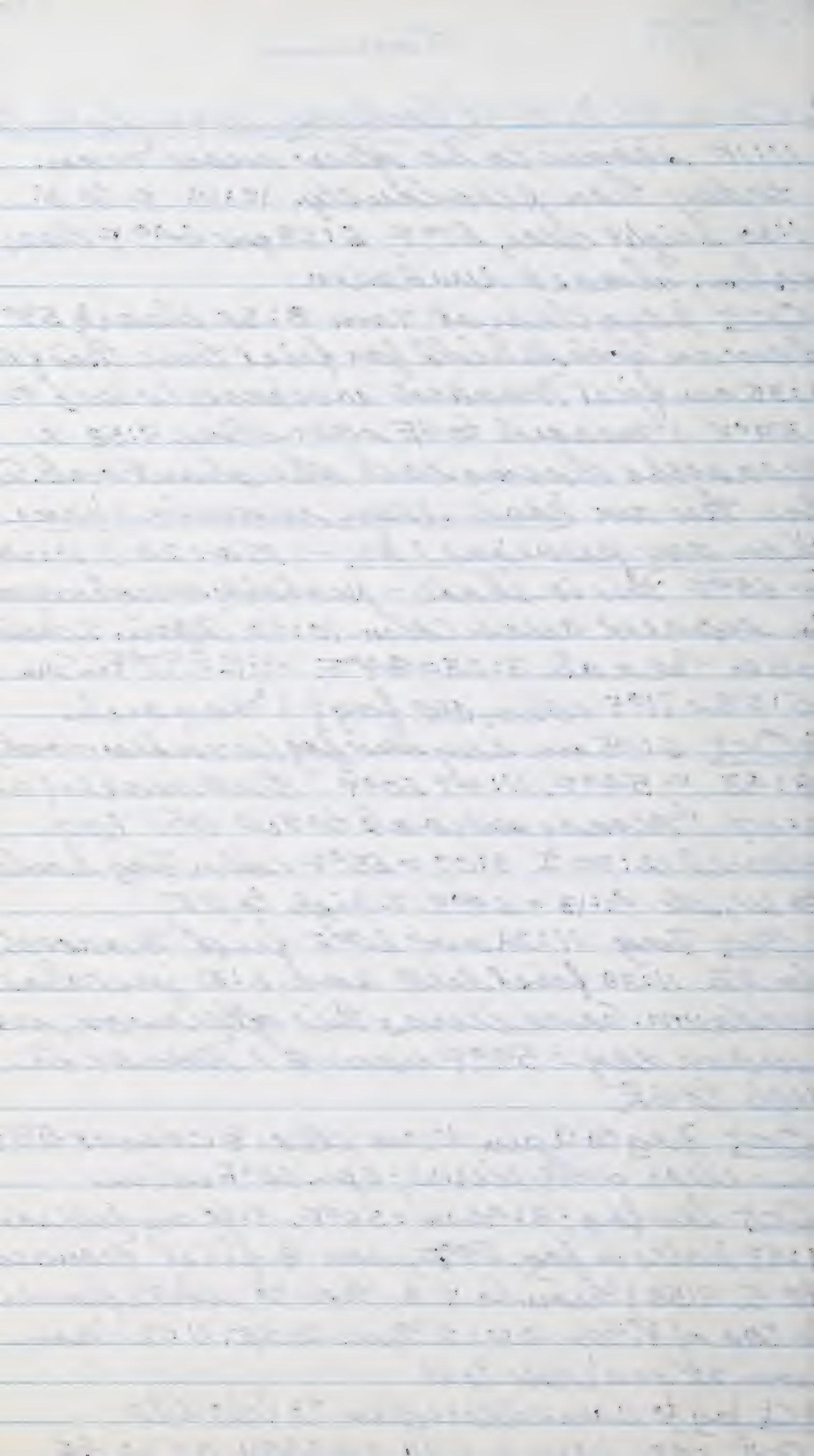
5 Oct Fog 11:21 am 60°F first Monarch
to NE 11:38 first dull sun. 6:31 just about
sundown. Same cirrus this afternoon, not
a warm day = 59°F none & 1 Monarch
high to SE.

6 Oct Fog to 9 am 10 am clear & calm at 58°F
pm = clear with cirrus; 6 pm 66°F calm.

7 Oct low fog; 8:40 am = 56°F. 9:20 am dull sun.
9:53 holes in fog, 59°F, sun & first Monarch
to S, 9:58 1 Mon. to N & then to white flower
in top of Pittos. 10:01 2 Mon. to SE. 11:17 1 Mon.
from SE over house to W.

8 Oct fog to 9 am = clear calm to Palo Alto

9 Oct clear home & very smoggy at 10:45



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10 Oct, Belknap St., Berkeley, Alameda Co., Cal
when I returned from P.A. 5:47. 73°F

1 monarch to N. clear - haze - smog.

11 Oct cloudy around horizon, clear
over head 8:56 = 62°F calm. 1 monarch
over house to land on ash. 8:59 3 M.
chant and slow, fluttery flight. 2:34 p
'clear' with cirrus & stratus = 78°F.

12 Oct 9:36 = 57°F. Fog till 9± Then haze
clear. 9:44 am first monarch to S. 10:18 a.m.
a fair number of monarchs this a.m.
5:41 clear, calm no activity; quiet day.

13 Oct 7am = fog; clear by 8:30. 9:15 = 58°F.
clear, warm all day

14 Oct clear; 9:16 = 60°F, calm. 9:40 a
number of monarchs to S; 1 sunning on
ash & 2 'pairs' chasing over trees.
The D-4 feeder has been empty for 2
days - filled up at 9:30 a.m. no H. Finches
yet. 1:50 a goodly number of monarchs
flying past. 2:45 clear 71°F.

15 OCT. 9:45 am = 57°F calm. Fog at 5 am &
clear by 7:30 - 1 monarch fly & perching about
NW elm. 9:50 in past 5 minutes 5 to S & 1 to N.
max high. 10:40 am = 61°F clear with smog
and a line of cirrus (?) clouds off to SW
a lot of monarchs this a.m. Thus far I have
seen no birds at table 1. 11:08 a band of
cirrus aloft overhead S to W. 11:30
a lot of monarchs this a.m. - 20 to 30!

12:20 = 62°F cool day. 1:05 = 65°F more cirrus
from S-SW. 5:51 cirrus to SW & 62°F

16 Oct. high fog 9:39 am = 58°F. calm 9:49 dull
sun, a few small holes in fog. 9:54 2 monarchs

[The page contains faint, illegible handwriting, likely bleed-through from the reverse side.]

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16 Oct, del Norte St, Berkeley, Alameda Co, CA

10:10 am just about 'clear' with a few
cirrus from S; = 57°F. For same reason
today feels like the first day of fall
or a winter day; 59°F now. 3:17 = 68°F
in sun, fewer cirrus, calm. 6:15 = 67°F ^{clear} calm
6:18 Sun set clear calm a few small cirrus.

17 Oct Fog 8:53 = 55°F. 10:57 am Fog & 60°F

11:11 2 Fair Sq. have been carrying acorns
from oak via line to Pittos (on to
big oak next door to N-?). 11:13 1 Monardella
high to E - occasional breezes. 1:40 partially
clear, breezy & 60°F. 6:29 = 56°F clear calm.

18 Oct. 8:31 am. = 55°F fairly low fog, calm

9:17 = 57°F first Monardella high to S

10:10 dull sun. 10:34 patches of blue. 4:18

pm = 90°F in sun, clear & calm 4:48 1

Monardella to N. fast over trees. 5:49 =

69°F clear calm quiet day

19 Oct 9:53 am clear all am = 59°F.

10:51 = 64°F outside; 63°F inside. 7 pm = 66°F

crickets !! last night & tonight what Tex.

20 Oct clear, 9:55 = 68°F calm 10:51 now

quite a stiff breeze! The wind is appar-
ently from the NE, up to 90's

THE GREAT EAST BAY FIRESTORM

12 midnight = calm & 67°F.

21 Oct 7:30 am clear, calm & 59°F. Fog in

by 8:30 - 9. 9:39 partial clearing & 58°F.

1:19 part fog, hazy & now W. wind fog

hazy at 4 pm 6:34 heavy fog & 59°F.

22 Oct complete overcast of cold front

nimbus with seeds going N. 9:14 = 57°F

11:15 slight breeze, still overcast & 59°F

THE GREAT EAST BAY FISHBOWL

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22 Oct, Adirado St., Berkeley, Alameda Co Calif
almost feels like rain. 12:32 opening
up a bit, no blue, clouds still to N. = 60°F
2 Fax Sq. continue to carry off across
from cab, up line to Pittos & N.

23 Oct. Clear; 9:22 = 49°F ! Last night
on news - snow N Oregon - Washington
- so winter up the coast - rain due
here Saturday. 11:11 am = 55°F 12:41 = 58°F
2:47 occ. breezes & 63°F sparkling clear.
6:26 clear calm & 57°F.

24 Oct clear full moon to W. & 42°F at 7:50
am few cirrus to WNW 9am = 48°F bands
of Mahanal clouds S to N. cool calm.
10am = 51°F no monarchs yet clear, but
few clouds of cirrus. 1pm clear, calm
& 59°F few monarchs. 2:44 new breeze
62°F & cirrus overhead; stratus to W. 6:21
54°F complete stratus cover & calm.

7 light rain at 9:30 pm = .05"

25 Oct everything wet, 9:23 = 55°F cloudy.
what a change - all kinds of bird activi-
ty. 10:58 am = 59°F 1 monarch about cab in
slow flight. 2:45 = 57°F sprinkling calm.
3:41 no rain 57°. 5:39 = 56°F occ wind & showers.
5:49 getting dark, heavy sprinkle straight down.
6:04 few doves & few bees feeding in rain.

26 Oct. rain all night to 9 am = RAIN FALL =
1.74" & 54°F. to sprinkles at 8:30 am
10:35 no rain, few clumps of blue off to far W.
11:28 1/3 W aspect clear. no rain. 11:45 first
sun here = 56°F clearing fast. 11:57 windy
1:08 clouds back & 57° 2pm windy from NW.
4:30 = 65° only few fluffy cumulus, clearing breezes.

1. The first part of the paper is devoted to a general discussion of the problem of the origin of life. It is shown that the problem is one of the most important and interesting in the history of science. The author discusses the various theories of the origin of life, and shows that the most probable one is the theory of spontaneous generation.

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26 Oct., del Norte St., Berkeley, Alameda Co., CA
6:30 clear & 52°F calm

27 Oct clear & calm 7:30 am = 45°F at 12:20
= 55°F (old time) 5:42 clear, calm 57°F

28 Oct 8:03 PST am = 49°F clear. 8:54 =
= 52°F breezy. 9:21 am irregular chunks
of cirrus now overhead from NW
11:am clouds & haze to S. 12:13 windy & 61°F
first monarchs seen today high to S.
12:28 lot of cirrus above horizon to W. ^{still} windy
& 62°F. 2:42 = 77°F in sun; bands of thin cirrus
N to S. 4:07 pm = 67°F feathery cirrus high SW &
haze to W. calm.

29 Oct. clear except cumulus like clouds over
hills, etc. 8:47 am = 55°F calm. 9:46 occ.
breezes with small fluffy cumuli going
S. otherwise bright sun. 10:43 = 56°F 1 m-
anarch fast to NE. 3 pm sparkling calm
81°F in sun. a few cumulus.

30 Oct sparkling clear occ. wind. 8:14 am
= 48°F. 12 noon = 59°F clear, windy cool.

31 Oct. 40°F at 7 am 45° at 8:07 am calm
clear 9 am the first bird activity
on landing, 2 towhees, since a
sharp-shinned hawk in elm at 8:10
- 8:13. Except 1 robin in elm bright.
9:04 calm bright sun & 51° in shade
with first monarch. 1:30 very little
bird activity to day. A S-sharp in elm
at 8 am & a quick lab at another (?) to
NE 10:30

1 Nov clear, calm; 8:08 = 48°F, 10:32 am = 57°

Since the rain new growth & white flowers on
Pittos. And on these clear days less bird activity.

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1 Nov. ~~del Norte St., Berkeley, Alameda Co., Cal~~
12:17 = 63° fair number of monarchs.

2 Nov. 46° at 7:30. 9 = 53° F clear calm
9:21 am = 54° in shade - first monarch.

11 am = 60° filling cirrus to WNW.

4 Nov. clear, calm 8:27 am = 49° F 9 am =
52° F a band of cirrus, S to N off to W
slowly approaching. 9:26 = 55° F first
monarch over house - The temperatures
recorded here are in the shade of
W. exposure so in mornings they
are significant cooler than exposed
situations which the sun reaches
early. 10:46 = 60° Lots of monarchs
about clusters of white flowers / Pittos.
1:21 pm = 66° F clear & few streamers of
cirrus.

5 Nov. 8:09 clear, calm, 50° F.

6 Nov. 9:28 am = 61° F first monarch; clear
calm and first am (7 am, i.e.) with no condensation on car. 4:18 same; 77° F with
feathery cirrus to W.

7 Nov 8 am clear calm 58° F. no wind activity
3 = 77° F almost complete stratus overcast
from lots of cirrus; no sun. muggys.

8 Nov 8:47 am 55° F fog with dew drops
falling, heavy calm. 2:40 fog thick & 58° Fog
off & on before some pluvials with scattered
clouds.

9 Nov. Fog. 9:40 - 57° F. start clearing at noon,
12:48 first monarchs = 60° F 1/2 ± fog, sunny
tho hazy. 3:53 foggy clear; 71° F in sun.

10 Nov. clear, heavy dew; 2:54 = 71° F with
lots of cirrus coming in.

1. The first part of the paper is devoted to a general discussion of the problem of the origin of life. It is shown that the problem is one of the most important in the history of science, and that it has been the subject of much speculation and controversy. The author then proceeds to discuss the various theories which have been advanced to explain the origin of life, and to show that the most plausible of these is the theory of spontaneous generation.

2. The second part of the paper is devoted to a discussion of the evidence in favor of the theory of spontaneous generation. It is shown that the evidence is of a very convincing nature, and that it is in complete accordance with the results of the most recent experiments. The author then proceeds to discuss the various objections which have been advanced to the theory, and to show that these are all of a very unconvincing nature.

3. The third part of the paper is devoted to a discussion of the various applications of the theory of spontaneous generation. It is shown that the theory has many important applications, and that it is of great value in the study of the history of life. The author then proceeds to discuss the various objections which have been advanced to the theory, and to show that these are all of a very unconvincing nature.

4. The fourth part of the paper is devoted to a discussion of the various applications of the theory of spontaneous generation. It is shown that the theory has many important applications, and that it is of great value in the study of the history of life. The author then proceeds to discuss the various objections which have been advanced to the theory, and to show that these are all of a very unconvincing nature.

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6. The sixth part of the paper is devoted to a discussion of the various applications of the theory of spontaneous generation. It is shown that the theory has many important applications, and that it is of great value in the study of the history of life. The author then proceeds to discuss the various objections which have been advanced to the theory, and to show that these are all of a very unconvincing nature.

7. The seventh part of the paper is devoted to a discussion of the various applications of the theory of spontaneous generation. It is shown that the theory has many important applications, and that it is of great value in the study of the history of life. The author then proceeds to discuss the various objections which have been advanced to the theory, and to show that these are all of a very unconvincing nature.

8. The eighth part of the paper is devoted to a discussion of the various applications of the theory of spontaneous generation. It is shown that the theory has many important applications, and that it is of great value in the study of the history of life. The author then proceeds to discuss the various objections which have been advanced to the theory, and to show that these are all of a very unconvincing nature.

9. The ninth part of the paper is devoted to a discussion of the various applications of the theory of spontaneous generation. It is shown that the theory has many important applications, and that it is of great value in the study of the history of life. The author then proceeds to discuss the various objections which have been advanced to the theory, and to show that these are all of a very unconvincing nature.

10. The tenth part of the paper is devoted to a discussion of the various applications of the theory of spontaneous generation. It is shown that the theory has many important applications, and that it is of great value in the study of the history of life. The author then proceeds to discuss the various objections which have been advanced to the theory, and to show that these are all of a very unconvincing nature.

11 Nov. ~~all~~ Trade St., Berkeley Alameda Co., Calif
clear, heavy dew, calu 9:18 = 57° out at
7:20 am. 11:01 = 63°F First Monarch.

3:50 pm clear, calm & 72° few of anything
except dunes in to feed, as seen about

12 Nov clear & 48°F at 6:37 am; 8:20 = 53°F
clear but hazy with thin cirrus, sun.

11:40 = 64°F hazy clear only 2 monarchs
so far this am.

13 Nov 9:45 bands of cirrus overcast to NE
calm & 54°F. dew at 7 PM. 12:27 slight
breeze & 65°F bright clear. Monarchs on
Pittosporum flowers.

14 Nov 6:30 am = 47°F clear, windy during
night & 8:04 same°; periodic wind.

15 Nov clear & windy; 50°F at 8:15. 8:23 Six
dark birds flying N in formation - have
seen these before at this time. Now I
think they are cormorants - to feed
Lake?

16 Nov. 7:20 = 40°F scattered cumulus. 9:25
am 48°F clear with banks of clouds to S
& W. calm. 11:03 = 56° calm First Monarch.
11:50 now the flag down the street indic-
ates a breeze from the south. 1:58
= 61°F & high flying cirrus from S. & several
monarchs. 3:18 = 59°F ~~clear~~ complete cloud
cover now, same heavy same lighter 5:05
first shower of rain 6:13 sprinkles.

17 Nov light rain to 8:31 = RAINFALL = .34"
9 am heavy down pour & 51°F noon =
clear & RAINFALL = .38" 50.72". 2:20 = 59°F

18 Nov. 7:30 am = 45°F clear; 8:39 = 50°F calm clear
cirrus. 10:27 = 54° First Monarch at Pittos flowers.

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18 Nov. Del Norte St., Berkeley, Alameda Co., California

2:47 = 76°F sparklingly clear. calm

4:29 = dawn to 57°F nice cirrus & stratus
19th mit mackerel, saw clear bank of clouds
to W. mainly a clear day with clouds W-NW

20 Nov 8:20 = 57°, calm complete overcast;
RAINFALL .04" last night. none now.

9:40 dull sun; some openness since 8:45.

" = 57° 4:51 = 57° dull overcast.

21 Nov clear cool calm.

22 Nov calm clear, but for thin cirrus, 8:46
= 46°F 3:56 hazy clear lots of filmy high cirrus

23 Nov clear at 7:50 am = 50°F 9 am = hazy
clear, E. wind, a few cirrus = 53°F 10:20 = 56°
with bank of cirrus to W approaching; breezy
11:03 huge diffuse 'feathers' of cirrus W to E
now overhead, still breezy. 11:26 Fox spined
from oak on line to Pittos & on. This means
it carried apple from tree to line to
oak to get to this utility. I don't think
I ever saw this before! 11:57 = 59°F
first Monarch; to N low. Not many seen
of the past week. 4:07 rather calm, 'clear' but
hazy with ill-famed cirrus. Flag down St = ^{from} SW.

24 Nov calm 9:32 = 52° ± hazy cirrus S to N.

10 am sun out. A quiet day watching football!

25 Nov 8:30 = 47°F clear, calm few cirrus.

when just light enough to see towhees, gold-
en crests (& ? white-throated S.) in, no
feed out (ran out goat manure at 8 am) - there
was much chasing - in form of towhees,
head down charging others. 10:15 only
bird in last 1½ hr. is 1 dove in elm. Bank of
hazy cirrus off to W.

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25 Nov., ~~del Norte St.~~ Berkeley, Alameda Co., CA 1:30
10:45 1 Monarch on Pittos flowers; 1 other
Monarch at same flowers. 1:45 1 to E
overhouse. 1:52 another to E. 2:16 1 to S at
eye level - fast. = 64°F .

26 Nov. hazy clear high cirrus. 10:52 = 56°F
calm. 2:03 2 'fighting' high near top NW elm.
2:30 caught Fox Sq. in trap ? the big aggressive
 σ to J. H. Verb. 4pm thin streamers - cirrus
from SW = 60°F . calm. Wind activity
4:54 high cirrus = 56° a few dares!

27 Nov 7:30 = 46°F clear, calm, 8:46 = 49°F
TRACE RAIN at 3 am, big splatters
things wet in a.m. 10:03 sparkling clear
& calm & 52°F . to Palo Alto

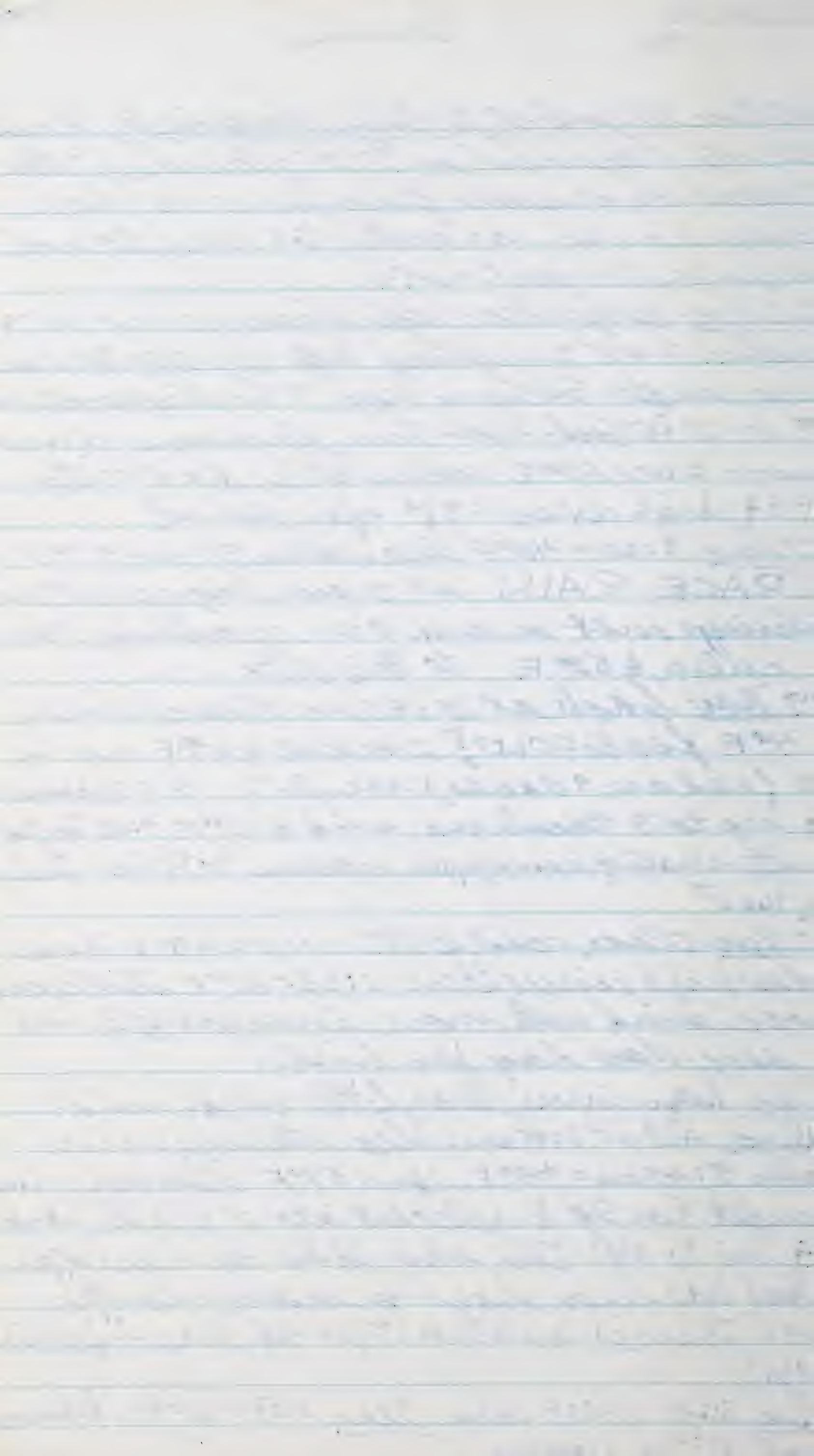
29 Nov back at 10:50 am clear & windy
 54°F feels COLD! 2:49 WIND & 6°F . 3:57 in
to feed are 9 dares, 1 scrub J., 1 G-C sparrow
& up to 3 towhees wind & 55°F . 4:01 Fox Sq
with small green apple upline to Pittos. This
is the σ

30 Nov clear, cold, WIND 10:11 = 48°F saw
few high cirrus tow. 1:55 = 60°F still clear
& acc. wind with more cirrus going S. and
a very slow day for birds.

1 Dec hazy cirrus clear, little wind. mild.

2 Dec 42° at 7:45 am. Clear with hazy cirrus -
calm 9:40 am = 48°F . 1 pm = 59°F clear hazy cirrus
Caught Fox Sq. & released into J. Nible park
 $\frac{1}{3}$ mi to NW. This should be the last of pr.
which has been about for many months.
2:41 There is another Fox Sq. here - "furrier
ears"

3 Dec 8:20 = 48°F calm clear 1:53 = 61°F 1 Monarch
at Pittos flowers.



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34 Dec, Alameda St., Berkeley, Alameda Co CA
9 am = 45°F clear, calm. 10:18 a band of haze-
cirrus for an horizon to W. (at top of utility
pole at circle). a storm system maybe
in this weekend. 3:30 another Fox Sq. to Park!

5 Dec calm, clear, 8 am = 42°F, 9:40 = 45°F.

12:11 same; = 54°F One Fox Sq is back!

12:29 Monarch SW over oak. 12:42 another
Monarch, to SE low. a band of haze-cirrus
on W horizon below level of pole. 1:15 cirrus
now above pole. 2:35 cirrus now nearly over-
head, still calm & 64°F.

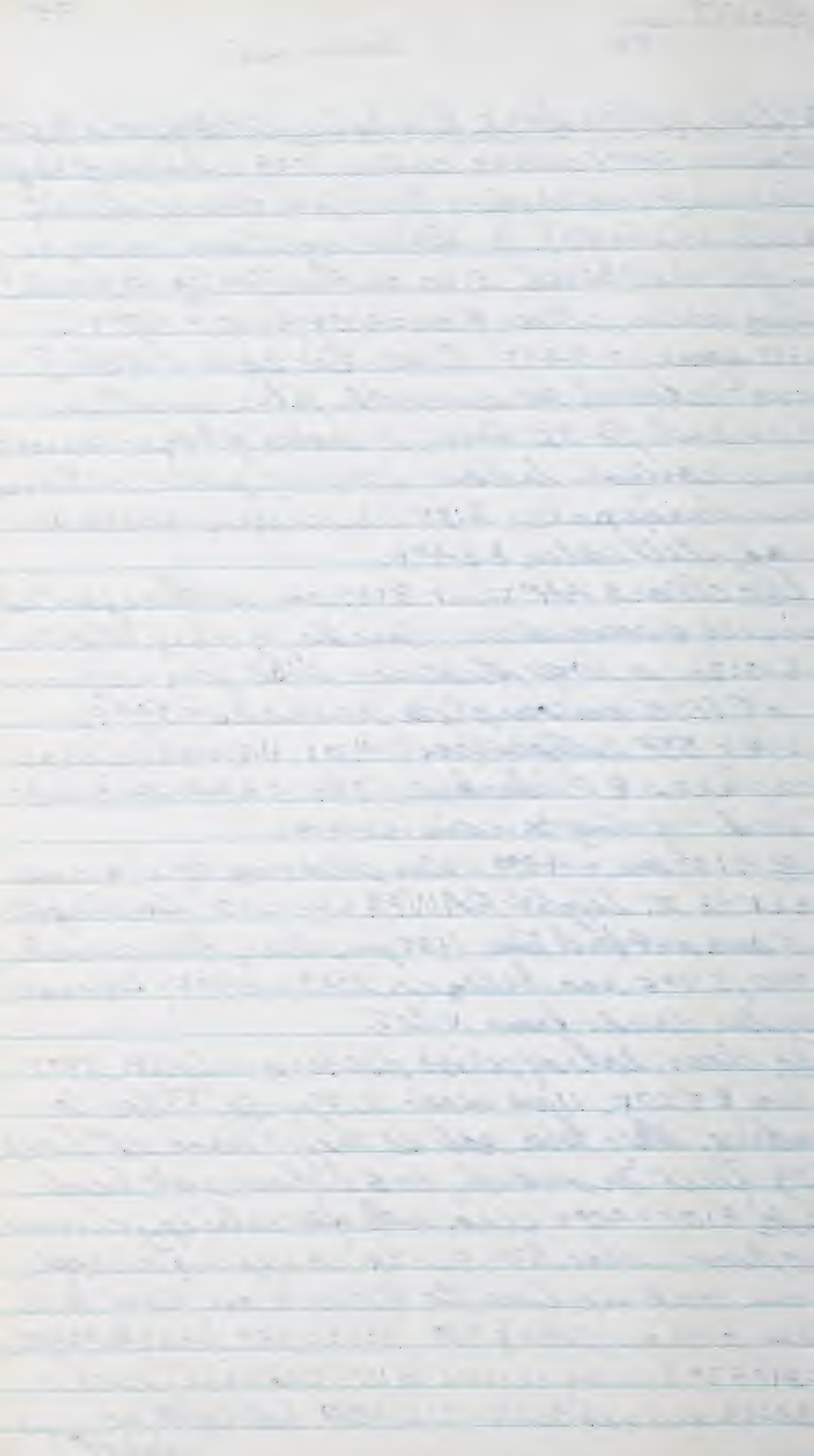
6 Dec clear & 44°F at 8:37 am with assorted
cirrus & cumulus clouds, ¼ sky. between
10 & 10:30 a low stratus-like fog in from
S at 11:15 am complete overcast 54°F.

3:48 = 55° dull overcast. 4:01 H. Finches, doves
treehoppers & chickadees (1 G-c sparrow) in to
feed - going to rain soon.

7 Dec 9:37 am = 48°F calm clearing to W & over-
cast to E. light RAINFALL = .10" last night.
10:15 sun out first time. 1:39 pm clear, few cumulus
to SW, 57°F see breezes. 2:57 = 59°F; several
cumulus clouds from N to S.

9 Dec clear, lots of wind during night. 9:07
calm & 52°F. 11 am now 2 Fox Sq. Pittos to
landing, other thru oak so they "barned" back.
12:09 first Monarch, to S below oak level.

10 Dec 8:07 = 40°F clear with few wispy cirrus
moderate, calm. 9:14 Fox Sq. carrying an apple
from oak up line to Pittos & on to N thru
trees. 10:52 am clear & 52° 11:52 = 55° first Monarch
12:39 = 57° heavy cirrus to W (cedar hi). 12:51 a
Monarch over oak, then N. 2:21 = 54° dull light no
shadows.



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10 Dec., del Norte St., Berkeley, Alameda Co., Calif
3:06 sun out = 61°F in sun.

11 Dec. 8:26 = 40°F clear, calm, no dew. 11:48
am = 54°F long hands - cirrus tow (overcedar)
1:04 = 55°F clear calm. 2:16 just moon high
over the house hardly any bird activity in
these High Pressure days.

12 Dec clear, calm 38°F 8 am. 9:25 so far
2 Fox Sq about this a.m. & 2 apples about
north. 10:31 = 47°F .

13 Dec 40°F at 8:19 am clear & calm. 11:30
caught a Fox Sq. - a ~~fox~~ cat? - this time
it went to the tilled native area!

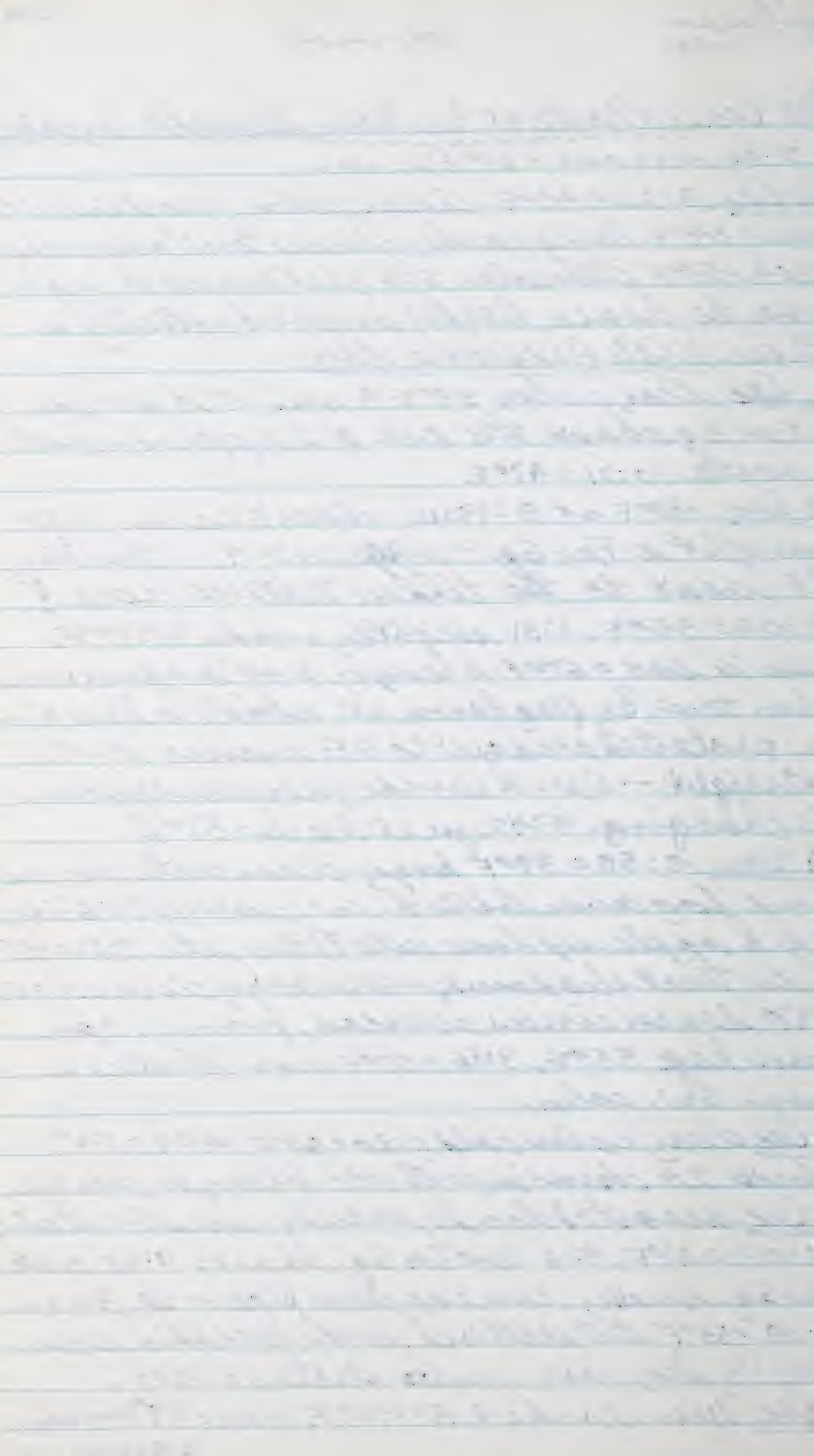
12:09 = 55°F . 1:31 slightly windy & 58°F .
3 pm in sun = 67°F breezy. 3:44 magne cirrus
far tow. by flag down st. which is low & in
a protected area w to SE waves and
straight - NW - N winds. pressure system
is changing. 5:42 just dark = 51°F

14 Dec 8:58 = 39°F hazy clear with cirrus
and fog over hills & w. calm. 9:06 Fox
Sq. & apple up line into Pittos, etc. 9:51 = 43°
indistinct shadows; more hazy cirrus. 11:37
= 47° denser cirrus overcast, from S. 3 pm
cirrus haze 55°F . 3:56 = 50°F new stratus in
from SW. calm.

15 Dec clear, calm cold 11:30 = 50°F 4:09 = 54° ,
since 2+ cirrus in, with occ breezes. cold day.

16 Dec. assorted clouds, mainly cumulo - stratus
8:54 = 41°F . 9:18 two Fox Sq. about! 9:43 another
Fox Sq. smaller, came up drain pipe - so 3 now.
2:08 = 55°F still scattered clouds, periodic sun.
4:42 $1/5$ sky, rest cumulo stratus = 47°F .

17 Dec Misc clouds 8:15 = 42°F . 10 am = 49° cumulus
on a clear



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17 Dec., Adhate St, Berkeley, Alameda Co., Calif.
1:14 now monotonous overcast & 49° -
will it rain? 1:30 first light rain 2:11 -
heavier rain straight down & 49° towhees
& chickadees feeding; doves in w. elm
2:50 rain has stopped; getting brighter. 3:51
rain stopped still, overcast - I caught a
Fox Sq. This I went to the Kensington shopping
area - 1 mi. 4:13 Fox Sq. up line with
apple (via E. part of cab & line - another)!
into Pittos. So by theory 2 Fox Sq. left
which ones - hope its the big ♂ who
jumps up on D - 4 to gabble seeds -
I have to open the window & clap
to make him go down line & into
Pittos. 4:16 = 50°F. 6 pm = 52°F quiet, dark
light rain during night

18 Dec 9:51 = 53°F only partly cloudy now
overcast at 7:30 am heavy & big shower,
at 6:30 Since yesterday RAINFALL = .47".
The smaller Yawper Fox Sq. up chain at
8 am. at 10 The man - fuzzy eared ad
up line from cab (think its a ♀ - less
aggressive) and its passing the right
front part. 10 ± to 10:52 bright sun to SE to
SW; now cumulus, etc over much of NW-N.
Noon - practically clear, but a line of im-
pactly deadening thunderheads building WSW
to NW. still calm & 55°F. 12:54 now 90%
cloud cover from SE to NW 2:17 now almost
clear, except huge build up of clouds far to W -
tumbling = 56°F. Yesterday I put out on
the landing a hen's egg, one that has
been in the "frig." for over a month!

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18 Dec., del Norte St., Berkeley, Alameda Co. CA
2:46 a Fox Sq. up line to Pittos & N with
another apple - does it favor front
foot.

19 Dec 39°F at 8:25 am clear & calm. 8:35
a new small Fox Sq. in aab, then line
& jumped into Pittos 8' from aab; not the
usual short jump where Pittos is adjacent
to the line - this new to area! This
makes 2 new smaller (i.e. no adult
size) Is this fall dispersal? 9:33 = 42°F
This is a high pressure regime. No doves
in at dawn as early in week - did the
hawk scare them off. However - I
put food out at 7:15 before going out
for coffee & most now gone! So
far no doves about, several treeees
about & the chickadees - minimal
"bird activity." 10:33 & 50°F outside Fox
Sq. sunning for several minutes on line
adjacent to Pittos. practically motionless.
10:57 a gust of wind! 47°F 1:03 windy,
flag at Nature Co. show NW wind; 53°F
3:34 - clear & calm & 61°F! (in sun).

20 Dec clear, same wind 8:37 = 39°F. Noon,
50°F after cirrus low & occ. wind! 4:34 hazy
to W - few cirrus, otherwise clear calm, 50°F.
relatively little bird activity; doves in at 4p.

21 Dec wind all night, heavy muggs 9:07 = 44°F
hazy cirrus overhead & stratus to W. 10:35 =
48°F outside still windy & cloudy. NE wind
12:30 = 54°F now general overcast. wind has
shifted to SW, 2:50 = 55°F cirrus-stratus overcast
calm. dull sun. 3:50 = 52°F darker stratus

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22 Dec, del Norte St., Berkeley, Alameda Co., Calif.
scattered stratus calim; = 47°F

23 Dec 8:37 = 41°F clear & calm. This last
morn saw last leaves on Linden Tree
& now apple is losing leaves & turning
yellow. No leaves on elms on this
st, however leaves on other streets.

24 Dec 7am = 39° clear & calm. 8:29 = 41°F
9:18 = 45°F 1 Fox Sq. on landing, 1 in elms
up st. & 1 up line from cab - so 3 !.
10:56 = 50°F same, but cirrus to far W.

26 Dec. du Palo Alto a few cirrus, mainly
stratocumulus all day mainly calm,
periodic sun. Clouds from S. here by
10:30 am. 3:20 an extensive storm is due
in this evening. Now lots of bird activity:
Townsend Warbl. in cab, several chickadees,
towhees, 1 Jay, 2 H. Finches & 6+ doves.
Can they anticipate a storm?

27 Dec overcast, open partially at 8am ± now
lower & darker, a few breezes 10:08 = 59°F
11:34 = 60°F gusts of wind, dull overcast, can see
details of clouds. 12:56 the first fine mist of
a rain. 1:34 still no rain. 1:52 56°, calm; even
duller sky no detail. 2:19 light rain 2:22 heavier
rain - no bird activity. 2:35 = 53° rain
straight down, so far rather light. Can see
clouds go by. 3:20 du: H. Finches (3+), chickadees,
towhees, doves (11+) 4:09 all of the above
flew off suddenly; now they are back! Towhees
are water-proof! It's getting darker & the
landing puddles more extensive. The
late afternoon feeding orgg' has started
4:53 almost dark, rain - 3 towhees about! = 49°F

Christman
1991-92

Journal

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28 Dec., del Norte St, Berkeley, Alameda Co, California
a downpour about 4 a.m. Broken
clouds after 7:30 a.m. 9:20 = 47°F RAIN
FALL = .98" relatively calm 9:31 a brief
shower. 10:21 occasional gusty winds,
& = 50°F outside. 10:34 dark clouds & wind,
10:39 another shower. 10:43 for first time
this a.m. solid dark overcast. strong
gusts of wind. 10:56 some sun to SW - things
wet & dripping. 12:31 another shower -
brief & heavy. 5:58 periodic showers = 49°F
1 Fax Sq to Kensington. rain at night

29 Dec rain at 7; clearing 9:43 = 47°F
RAINFALL since yesterday - 1.34" 11:06 cloud
cover complete = 50°F. Moon still overcast,
51°F.

30 Dec 9 = 47°F scattered clouds. 11:30 = 53°F
same blue, but dull, little sun & clouds
drifting N. Another storm due on Wednesday
2:40 now complete cloud cover, cold & 55°F
31 Dec 7:30 = 40°F, clear, calm. 8:55 first
vague cirrus to SW - overcast & slight breeze.
10 a.m. = 49°F cirrus off to N, sunny & calm now
10:42 fuzzy long streamers of stratus S to N
= 50°F, 11:35 52°F & 50°F breeze & stratus, slight
breeze. 3:18 = 62°F in sun, clear, 1 feathery cirrus
& occ. wind.

1 Jan. clear windy 47°F at 9 a.m. 10 + haze in W.
11:49 a.m. clear, 53°F, S to N cirrus off to W above
pale, to top of cedar (far). a slight breeze.
2 Jan 9:26 = 45°F clear, windy; cirrus to W.
11:30 same, a few more cirrus 50°F. 2:33 = 55°F
same, more cirrus from S. 3:48 = 54°F stratus now
moving in from S.

Christman
1991

Journal
RAINFALL - 1991

252 A

del Norte St. Berkeley, Alameda Co. Calif

Jan. 7 = .13
9 = .34
12 = T = 47
Feb. 2 = 1.44
12 = 1.13
27 = .30
28 = 1.04 = 3.91

Oct. 25 = .05
26 = 1.74
Nov = .72
Dec 18 = .47
28 = .98
29 = 1.34

Mar. 1 = .23
2 = .85
3 = 1.51
10 = .71
12 = .10
13 = .76
14 = .08
18 = .33
19 = .89
23 = .91
24 = .64
25 = .87
27 = .37 — 8.25

Apr 1 = .07
20 = .21
21 = .25
24 = .09 = .62

May 19 = .20
30 = .12 = .32
June 27 = .12 = .12

5.30"
JF = 4.38
A, M, J = 1.06
10.74
8.25
18.99"
yr. total

20. = 0.10

47. = 0.10

55. = 0.10

70. = 0.10

80. = 0.10

90. = 0.10

10. = 0.10

20. = 0.10

30. = 0.10

40. = 0.10

50. = 0.10

60. = 0.10

70. = 0.10

80. = 0.10

90. = 0.10

100. = 0.10

110. = 0.10

120. = 0.10

130. = 0.10

140. = 0.10

150. = 0.10

160. = 0.10

170. = 0.10

180. = 0.10

190. = 0.10

200. = 0.10

210. = 0.10

220. = 0.10

230. = 0.10

240. = 0.10

250. = 0.10

260. = 0.10

270. = 0.10

280. = 0.10

290. = 0.10

300. = 0.10

Christman
1992

Journal

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- 3 Jan, ~~El Norte St, Berkeley, Alameda Co~~
8 = 40°F a few cirrus overhead a heavy
stratus to W (well above pale). 1:04
The stratus over to NE now clear, calm
56°F, sunny. 2:33 high cirrus to W. 3:48
= 59° nearly overcast, stratus, cumulus to W.
- 4 Jan 10:54 overcast, mixed clouds, 56°F,
a TRACE of RAIN last night (.03 ±").
Caught a Fox Sq. 6 pm overcast - dark = 53°
no rain - busy all day - no wind!
RAIN at 8:22 & heavy 10:30 pm = 1.10"
- 5 Jan 11 am = almost clear now, calm, 50°F
12:41 a few large cumuli, 51°F. Clearing in pm
- 6 Jan overcast 46° RAIN during Nite = .25"
overcast moving S! blue far to W. 10:58 over-
cast again. Getting darker, then brief
heavy shower about 3 p.m. 4:11 a
big rush to eat G.C.S, Towhees, doves,
chickadees & Finches! Doves 12+
- 7 Jan shower about 6 am. RAIN since 9 am
yesterday = .34". 9:40 overcast with light
drizzle. 10 calm, but winds from the NW.
10:40 Typical winter scene: Regulus, Tow-
son W & Chickadees in acbs! 10:49 now
a rain after a mild period. 11:38 lots of
activity doves to roof lot of finches & chickadees
even golden-crown in! heavy overcast
no rain now. 12: noon some strong gusts
of wind, no rain 41°F! This storm must
be curling up from the S. Cal. Storms & then
down on us. clearly 3 pm 6:27 = 39° clear.
- 8 Jan clear, calm, cold (45° at 10:30) a few
stringy cirrus. 12:30 = 51°F No bird activity -
no finches towhees, etc.

The first part of the paper discusses the importance of understanding the underlying mechanisms of the system. This is followed by a detailed description of the experimental setup and the data collection process. The results of the experiments are then presented, showing the effectiveness of the proposed method. Finally, the paper concludes with a summary of the findings and suggestions for future work.

The second part of the paper focuses on the theoretical aspects of the system. It provides a comprehensive overview of the relevant concepts and theories, and discusses how they apply to the system under study. This section is essential for understanding the underlying principles of the system and for developing a solid foundation for the subsequent analysis.

The third part of the paper presents a detailed analysis of the system's performance. This includes a comparison of the results obtained from the experiments with the theoretical predictions, and a discussion of the factors that influence the system's behavior. The analysis also identifies the strengths and weaknesses of the system, and provides insights into how it can be improved.

The fourth part of the paper discusses the practical implications of the research. It explores how the findings can be applied in real-world scenarios, and discusses the potential benefits and challenges of implementing the system. This section is crucial for understanding the practical value of the research and for identifying the next steps in the development process.

The fifth part of the paper is a conclusion that summarizes the main findings of the research. It highlights the key contributions of the paper and discusses the implications of the results for the field of study. The conclusion also provides a final thought on the future of the system and the role of research in its development.

Christman
1992

Journal

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8 Jan., del Norte St., Berkeley, Alameda Co., CA
cool, calm, clear. 11:13 = 49°F. 2:29 pm
same, few ting cirrus; 54°F shade.

9 Jan 39°F at 9 am hazy with cirrus, calm

12 Sunday back from Pal Alto: 1:15 clear, calm
few high cirrus: Brian married. Yesterday

13 Jan clear, calm 41°F at 9:49.

14 Jan " " " " 9:12. 12:36 = 51°F.

1 Fax Sq. to John Hinkel Park - smallish l.

15 Jan calm & hazy clear with few cirrus
8:51 = 47°F. 11:21 becoming breezy & cirrus
off to SW. = 51°F. 1:05 = 58°F more cirrus -

(?) status on W. horizon. Several bands
almost overhead at 1:52. 3:36 = 57°F hazy
macular clouds, cirrus. 4:58 = 53°F dark to W.

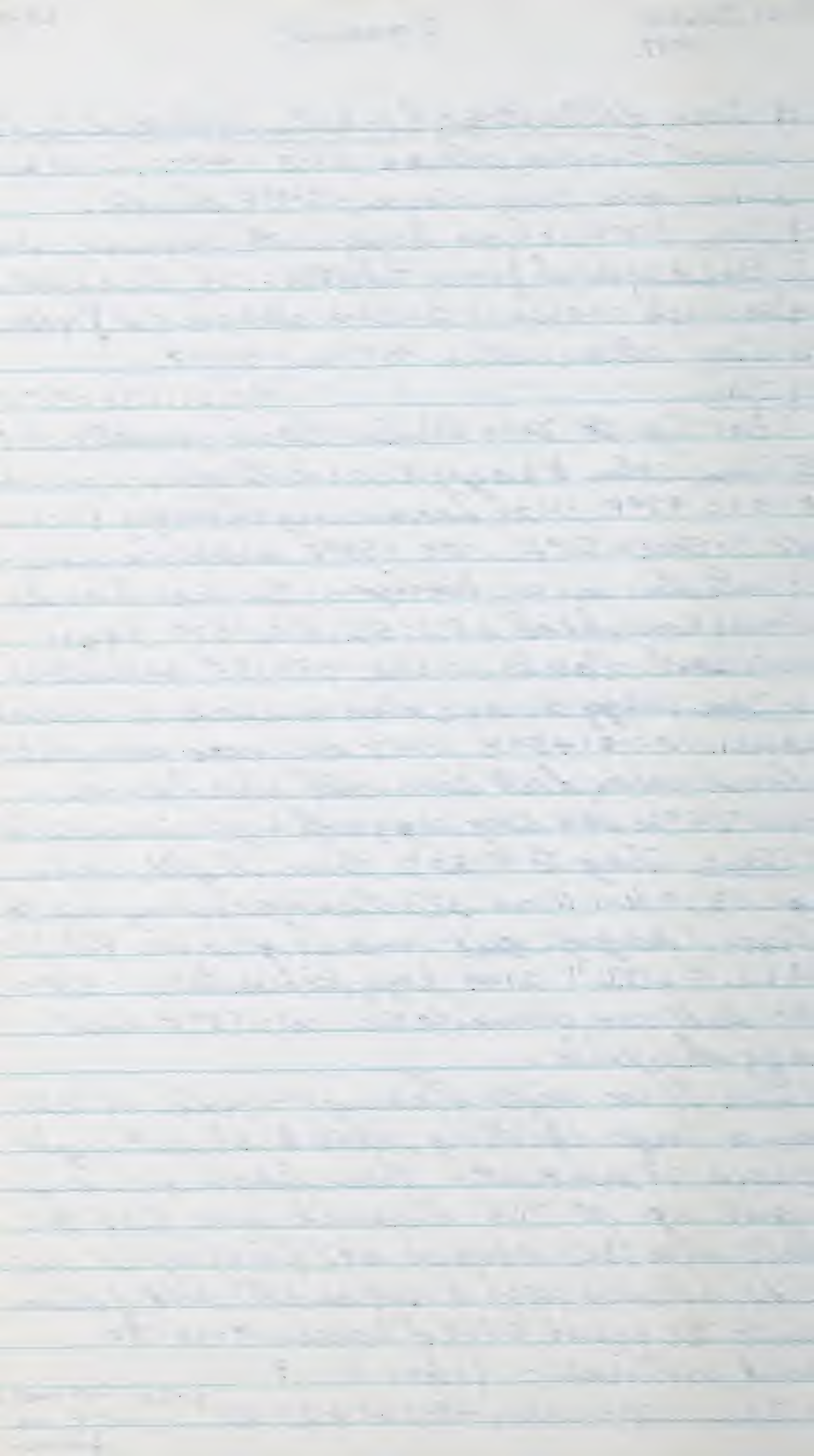
16 Jan hazy clear, calm increase dull cirrus
cover. 10:18 = 45°F. 11:57 am now complete
cloud cover, dull sun with shadows.

4 pm = 65°F in sun very hazy with high cirrus, calm.

17 Jan Fog to 9:30 ± then light rain
for 1/2 hr. 11 am started opening up to
clear / hazy. act mass of a.m. RAIN-
FALL = .02" 2:49 hazy (cirrus to SW) = 53°F.
4:05 dull sun, clouds to SW-W; 53°F dull
hazy otherwise.

18 Jan thru night strong winds. at 2:30
± am a huge splitting crack & street light
across st went out - then back on. when
I got up at 7:15 I could see that the
tall elm tree across st. (just up st on S
side, between curb & sidewalk) had fallen
onto the front part of house 9:56 the
wind continues - from N - ?

19 Jan clear, calm 45°F at 8:30 & 10 3:50 same
68°F in sun.



Wristman
1992

Journal

255

20 Jan., del Norte St., Berkeley Alameda Co., CA
clear & calm, frost on windshield. 9:30
= 39°F with a few cirrus & fog low to
W to N+. 12:15 a ragged mass of
clouds S to NW approaching, well over
oak now, & 47°F. 3:40 stratus now &
almost an overcast, no sun & 53°F. 4:31
almost a complete dull overcast, calm 48°F
21 Jan clear, calm, 34°F at 8:15; 40°F at 9:36
10:29 am 2 Fox Sq. 1 to cab is almost black
between eyes.

22 Jan 9:37 am = 39°F clear & calm. 5:42 after
dark = 43°F C & C. slightly more bird activity.

23 Jan COLD - frost on windshield & 34°F
at 9:07 am calm clear with fog over
tops of hills 10:20 = 39°F hazy with bits
of fog & filmy cirrus, tho sunny. 11:10 now
a band of cirrus S to NW well above oak & elms.
3:24 pm = hazy sun, 58°F cirrus over head since
noon; more to W. 1 Fox Sq. so far and very
little bird activity. MILAGE = here to
John Hinkle Park .6 mile; to KENSINGTON
shopping area = 1.3 mi. = squirrel
releases. 4:53 now heavier cirrus moving
in + stratus, Doves, Towhees, 1 J & chickadees.

24 Jan clear & calm, no condensation on
frost 10:28 = 39°F, at 1:34 am a flock
of geese flew over in dark, honking.
11:59 am C & C with high haze to W. 3:35 dull sun
(no shadows) stratus overcast, 49°F.

1 Fox Sq. to Albany High School. 4:54 getting
darker & more dull overcast, = 43°F few birds today
25 Jan calm, clear 38°F at 8:30; 9:14 = 42°F.
9:58 = 45°F chunks of fog W to NW. 11:53 = 53°F, few cirrus

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1992

Journal

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25 Jan, del Norte St, Berkeley, Alameda Co, CA

12:21 a light breeze from NW-N (Nature's flag). Extremely little bird activity

1:32 - 58° sunny calm a few filmy cirrus.

2:48 stratus overcast from S all but to N. quiet, calm

26 Jan calm, clear with a few cirrus. 10:30 - 49°F

27 Jan calm, scattered fog. 8:55 - 46°F. 10:09 = 51°F now general overcast, calm. 11:37 hazy clear 1/2, hazy sun & 51°F. 2:12 = 55° N breezes, very hazy clear. 2:40 general stratus overcast 57°F calm. 3:49 - 53°, W wind overcast du aab: 1 Townsend w., Plain titm., buck-tits & chickadees.

28 Jan light RAINFALL = .13" overnight.

9:21 = 47°F stratus overcast. 10:06 = 51°F bands of blue to W & bands of (?) fog into edge to high cirrus to overhead. 11:04 = 52° almost clear, hazy on edges; cirrus to N. 11:25 dull sun, clear, calm. 3:15 = 68° in sun C & C

29 Jan at 7 a.m. dense low fog which opened first at 8:45 then variable fog & sun 9:48 am = 45°F. calm 10:40 = 47°F and hazy clear, calm. 12:35 = 57° clear, higher sun. to W, S to N bands of filmy cirrus. 2:16 = 62° clear, sunny filmy cirrus. 4 pm 67° windy. 6:04 = 53° clear & dark; cirrus to W.

30 Jan 8:15 am clear, calm 42° with low fog NW-E, 9:20 Stratus overcast & still fog with winds near 45° 10:37 = 53° dull overcast, no shadows calm. 11:05 some dull sun & breaks in overcast = 54°F. 11:55 1/3 open; sunny calm; 1:41 dull sun huge stratus bands S to N off to W = 60°F. 3:18 = 59° stratus over

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1992

Journal

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30 Jan., del Norte St., Berkeley, Alameda Co., Calif.

5:52 pm 50°, 80% stratus to N, calm.

31 Jan 7:30 = 43°, 9:59 = 47° complete stratus overcast, calm. 1:16 = 53° stratus. 2:02 same dull sun. 57° Lots of blue with huge long feathery cirrus overhead. The Pittosporum N & W. = lots of new growth only few white flower clusters now, some orange fruits evident in N tree. 4:25 = 65° in sun Lots of long cirrus. A big storm off coast will arrive

17 Feb RAIN 12-3 am = .66" 9 am = 49° scattered cumulus a few small towering types. Calm 10:32 54° misc clouds with towering cumulus to W. 12:03 = 55° cumulus tower, then blow off! 2:15 = 59° in sun large well formed cumuli from W. 4:28 only a few small cumuli, calm & 61° in sun. 5:52 almost dark, clear, calm & 50° quiet day.

2 Feb calm, clear 9:51 = 48° 1:43 pm clear with some hazy cirrus to far W. acc. gusts of wind, tho mainly calm & 59° in shade.

3 Feb clear, acc. brisk N winds & 9:13 = 50° 2:38 pm 2 quick good views of a Monarch & about Pittos. 4:05 70° F in sun, clear & calm. 4 Feb 9:30 = 50° (49 at 8:10) calm - clear. 11:18 same with few gusts of wind, at 57° F. 2:53 = 65° in sun at 3:50 = 77° F calm.

5 Feb 8 am = 40°; 8:51 = 44° calm, clear. Yesterday 1 Fox Sp. to Kensington. 9:25 another Fox Sp. on the line - very hesitant. 10 am = 49° cumuli from S; dull & bright sun. 10:38 hand of dumps of cumulus N-S moving to NW. 1:05 = 61° dull sun, clear, slight breeze. Another Monarch about Pittos same 1? 1:31 another hand of clouds, 2:36 = 63° sky full of small, wispy unfarmed cumulus to N

Christman
1992

Journal

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5 Feb., del Norte St, Berkeley, Alameda Co., CA
3:30 = 71° in sun a few cirrus & high stratus.

4:48 = 58° no sun, heavier stratus, open to W.

6:20 dark, wind, 55° a few clouds to W. Strange day.

6 Feb wind during night "T" of RAIN by 8 am

9:20 light rain = 51° complete overcast of sun.

12:14 = 54° heavy night rain. 12-3 pm light

rain 3:38 = 53° darker overcast no rain now.

BLC up, light rain during night

7 Feb overcast at 8 am. periods of broken clouds

& sun. RAINFALL = .16" since yesterday.

10:25 = 56° 11:44 = 57° calm, now a dull overcast.

2:40 - lowering overcast, a few light sprinkles

8 Feb stratus overcast 9:45 = 57° 11:55 a few

sprinkles; 12:29 now a light windy rain; 56°

(this was brief). 1:57 = 60° clouds going N.

9 Feb 8 am 54°F overcast, variable breezes

11:36 getting darker, lower stratus now, 59°

1:02 = 59° at times strong gusts of wind; still

no rain. Days now of just empties to N.

2:44 = 57° BLC called - first sprinkles in P.A.

3:11 strong gusts of wind; sky turning more to a dusky

gray. 3:15 first sprinkles 4 pm bush-tits in oak,

townsies, feeding, doves hunched up - all in rain

Light rain. 6:34 = 51° continuing light rain.

10 Feb light rain over night 8:30 RAINFALL

= .30". Fast moving nimbus to N with

several brief showers (- 30 sec) 9:37 = 52°

11:06 sky suddenly uniform, then a shower,

= 53° 11:08 now dull sun! 11:30 another shower.

Then on: brief periods of sun, then brief showers.

2-3:30 huge dark clouds, bit of sun. 3:31 = 56°/6:35

= 48° & .42" since a.m. above. Rain since 4:30 pm

11 Feb RAINFALL during night 9 am = .73"

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1992

Journal

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11 Feb., del Norte St., Berkeley, Alameda Co., California
partly cloudy 50% \pm & 9am - 53°F P.M.
acc. wind, blue with few cirrus. 3:32 dn
pass 45 mm. suddenly overcast & dark
with strong breezes; 61°F 3:34 starting to
rain - doves feeding. This maybe a strong
storm, more than the rest.

12 Feb 8:30 = 50°, 10:12 = 55° RAINFALL = 1.98"
started about 5pm yesterday & continued
thru night. Variable clouds (9am 80% clear)
10 + more clouds & breezes. 12:05 now sun
with big cumulus heading N & 59°F. 3:06 = 70°F
in sun, large cumuli going over & over hills.
3:47: same mainly clear. cumuli to W

13 Feb RAINFALL over night = .43" 10:16

lots of dark cumuli to N. & 53°F. Noon =
57° with sun & cumuli to N, a few breezes.
12:42 first Fox Sq. of day! d's adult & easily
frightened (from Pittos). 2:19: 58° Sun, 30%
clouds 3:35 = 56° clouds building up over hills -
dark to SE!

14 Feb light rain at dawn, then a respite, at
9am heavier rain - wind. 9:30 = 47°F
RAINFALL (over night to noon) = (.22")

10:33 some strong gusts of wind. 10:58 windy,
rain stopped, still overcast. Then some sun.

11:19 showers, dark & windy. 1:42 a sudden
dawn pour with 3 doves 1/2 up NW elm
waddled in rain - earlier walking in
proddeson landing. 1:48 heavy heavy shower
2:46 went out in a huff now a dawn pour
- only 1 dove let in elm. 3:05 = 50° Rain. 3:27
very dark/rain, breeze. This is easily the
hardest most sustained rain in 5 or 6 years.

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1992

Journal

260.

14 Feb, 2200 1st, Berkeley, Alameda Co., Calif.
light rain in evening & during nite, wind.

15 Feb clear except puffy cumuli before
RAINFALL (since noon yesterday) = 1.24"

10:01 am clear, slight breeze, a huge, tall, ill formed
mass of cumulus SW to W (overcast); extends
to S. 10:12 This mass is moving to NW sector.

10:47 Disorganized mass with few cumuli over
head - no sign of billowing cumuli yet.

11:12 90% cloud cover - changed direction to NNE

11:21 first thunderhead WSW; big cumuli ahead.

= 54° 11:47 windy, high cirrus, clouds fast to N.

2:36 = 57° almost complete cloud cover back to
SW & W - rolling cumulus. 3:15 almost uniform
leaded sky and first sprinkle (didn't last long).

3:49 getting darker, windy, sprinkles again. 3:52

now rain. 4:30 steady rain a little wind.

16 Feb RAINFALL (overnight) = .89"

9:23 = 49° F variable clouds - no sprinkles

10:40 brief rain shower; 52° Then a bit of sun.

10:51 overcast, light rain. 12:38 = 53° clearing
with few cirrus & few towering masses, SW & NW.

1:29 = 57° (in shade) sunny with filmy cirrus & bands
of clouds SW to NW, dark! 3:47 1/3 cumulus (some
towering to N) few cirrus, 66° in sun. 4:07 clouds
moving in from S. shade, = 55°

17 Feb Trace of rain overnight with very lite

rain at 8 am. 9:43 = 52° sunny with scattered
cumulus. 1:12 almost complete cloud cover & 56°

3:37 = 69° in sun; towering clouds over hills, 50% clear

18 Feb 85% + stratus overcast, everything dry

9:16 = 52° calm. 12:15 = 58° F; dull stratus the rest
uniform. 1:01 sprinkles! 2:51 a continual lite

rain & 56° 6 pm RAINFALL = .18 at 6 = 51°

Christman
1992

Journal

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19 Feb all route 21, Berkeley, Alameda Co., CA
9 am = 56° auras with off & on lite spindles
RAINFALL (since yesterday) = .13"

total for Feb 92 so far = $7.03 + .13 = 7.16"$
A good solid rain started at 12:50 pm
rather abruptly. 1:29 a nice gentle tho
substantial winter storm - much needed.
2:49 slightly heavier rain & slightly darker
well get a drenching. Its nice after all
the fair & so-so weather we have had since
* I retired. 3 pm Tanager in to feed 3:03 from
oak clinkadee to D-4 and 2 (2 tab) tanagers
on line - nat wet! Flack of bush tits from
oak to Pittos & 2 ♀♀ H. Finches at D-4.
3:08 a few sparrows from N & scrub 5 to ledge
then to D-4 & a bill full & N. H. Finches talking
among themselves in Pittos. 1 Dove on line 18'
from house. 3:14 heavier rain - dove still in
place. 3:28 rain has let up same doves in
w. elm. 3:59 no rain & dove to ~~the~~ roof from
NW elm, more in W elm. Just waiting a tanager
in & they'll descend - land casing! Spring!
4:30 heavy downpour RAINFALL = .35"
4:45 lighter rain 2 H Finches to D-4 dove to roof
4:53 bush-tits back in oak - lite rain.

20 Feb mainly clear clouds over hills RAIN
FALL pm & last night = .96" 9:54 = 550
10:37 = 570 lots of fluffy amorphous small cumuli.
2 pm = 60° hazy from SW slight breeze. 3:54 = 600
hazy & some dull stratus, calm. 4:43 = 570 more
stratus off to W going N. This past week the
fruit trees about N. Barb have burst into
flower - white and deep pink (latter is ? orn-
amental plum).

Christman
1992

Journal

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21 Feb., ~~del Norte St., Berkeley, Alameda Co., Calif~~
7:40 am = 51° overcast. Rain - real gentle
at 8:05. 9:10 54° still lite rain. 11 am over-
cast; a few light showers. 2:31 = 58° calm
overcast, no sun. 3:53 misting & 57°. 6:12
occ. sprinkles, overcast, 54°.

22 Feb 10 am Sunny with a few scattered cumuli, 56°. clouds moving S; high pressure is
building in. 11:49 sunny, no clouds, 60°F
1:48 = 64° in shade a few small cumuli to S.

24 Feb. hab from P. A. clear, occ. breezes
& in sun = 90°F ! 4:36 partial shade = 82°

25 Feb 50° at 7:35 am clear & calm. 1 Monarch
seen in Palo Alto yesterday.

26 Feb 9:20 = 56° calm, clear. 10:31 NO
bird Activity !

27 Feb 10:28 = 60° clear calm. Fog to W, dur-
ing night foghorns! 12:04 bank of cirrus
to W (over oak). Monarch above Pittos (its
flying faster than most). = 68°. 2:48 = 78°
hazy S to N off in W, with feathery cirrus. I move
Monarchs to N. 4:34 = 78° more haze & cirrus.

28 Feb 8:25 = 58° dull overcast - high cirrus
vague sun. 9:34 same with dull sun & 61°F.
12:24 pm 67° a Fox Sq. crossed street from
elm to elm (S to N) the missing elm has
effected sp. travel. This is first Fox Sq. seen
this week! 2:39 = 71° hazy overcast, 1 Mon-
arch to N. 3:58 = 71° dull sun, hardly any shadows
- another monarch over Pittos.

29 Feb 9:42 = 59° calm, thin overcast, dull sun.
12:20 = 64° part hazy blue with a few cirrus with
a bank of cumulo-stratus in from SW, occ. sun.
2:07 stratus darker, 78° hazy sun.

Christman
1992

Journal

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1 Mar. del Norte St. Berkeley, Alameda Co. Cal.

RAIN began at 11:30 last night = .18"
almost clear at dawn. 8:30 cirrus over-
cast, breezy, big cumulus to NW. 9 a.m. =
55° dull sun, thin overcast. 11:11 = 63° with
dull overcast. 11:57-65° same plus heavier
cumulus layer. 5:31 = 57° dark overcast.

2 Mar last night = 7+ pm. thunder/lightning
& heavy down pour. showers again about
5 am. RAINFALL since yesterday = .35" 10 am
= 55° - heavy varied overcast. 11:37-61° 2:30
pm sunny, 65° a hole - big in overcast over-
head.

3 Mar assorted cumulus. 9:36-56° calm.
10:52 2 Fox Sq. exploring about from Pittos
up line (I chased away) into oak & back
to Pittos. 12:27 pm 60° breezy, almost clear,
few small cumuli to N. 2:pm breezy, 61°
now cumulus in to an almost solid overcast

4 Mar. cumulus overcast 95% + breezy 55°
at 9:32. 10:24 dull sun 10-15% open & 57°
1 Monarch high to E. this a.m. another M. (10:32
Pittosporum new white flowers & lots of terminal
branch now grown (now for several weeks).
11:25 bank of lower heavier stratus in SE
NW edge off to W. 4:03 was bright sun, etc at
2:30. Now overcast with stratus & lenticular
effect, getting darker.

5 Mar light rain during night, at 8:30 RAIN-
FALL = .72" 9:05 lightening up a bit.
9:43 sprinkles & acc. wind. 10:14 light rain
12:14 some sun - break in clouds = 58° 1:50
brief heavy down pour. then periods of sun. 8:50
heavy down pour again.

Kristman
1992

Journal

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6 Mar., ~~departed St. Berdoys, Alameda Co., CA~~
9:58 am: 54° broken cloud cover. Heavy
rain all night = 1.25" at 8:30 am
3:20 = 57° huge thunderheads NW & SW no
rain so far since Tam.

7 Mar clear (2 scudicinus) = 48° at 8 am
9:41 bandacinus to W, & 50°. 10:17 dull
cirrus anemast 53° 1:08 = 60° still anem-
cast, dull sun. 1:40 1 Monarch to W over obs.
3:25 almost clear, 72° in sun. 5:06 a few
cumuli 59° 2 doves in elms.

8 Mar. low stratus & 50° at 7:30 just about
clearly 8:48 & 53° 8:56 more fog back
10:48 55° - 25% chunks of fog - bright sun.

9 Mar broken fog, calm 9:21 = 55° 12:52
63° in shade, dull sun, still bits of fog.
1:23 1 Monarch to N low. still bits of fog
2:43 hazy clear 65° acc. breezes.

10 Mar. 9:20 = 56° Fog, calm. 9:51 = 57° 1/3 open.
11:14 = 58° hazy sun clear, but for small chunks of
fog. No bird activity this a.m. 12:19 pm
hazy clear, 59° 1 Monarch flitting about
Pittos, 2:17 = 64° hazy clear. Towhees, chicka-
dees about no doves! 4:29 = 66° same calm.
Walking to Golano Ave a woodpecker drum-
ming at top of utility pole every 10-15 sec
couldn't make ID - size of hairy but didn't
see white back. 6:06 after sunset 57° clear calm

11 Mar fog breaking up by 9:26 = 55° calm
2:21 = 62° feathery cirrus from S; 5:50 huge
scams of cirrus (same thickish) to N & 56°

12 Mar fog & condensation to ± 8 am then hazy
clear, 10:42 = 55° 12:10 Monarch over Pittos &
59° 12:42 another Monarch - same

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12 Mar, del Norte St., Berkeley, Alameda Co
3:19 another Monarch over Pittos (same one
?) This yr. is different!

13 Mar overcast - brabon breezy 10:09:57°
90% clouds, 11:54 = 60° more clear now.
3:45 = 72° in sun. 75% high overcast.

14 Mar light rain 5-8 am, still overcast.
8:51 = 51° Rain again at 9 11:50 still light
sprinkles after patches open to W & tiny bit
of blue. 1 pm clearing & 55° 1:11 sun out.
1:54 complete overcast & light sprinkles.
2:04 a hole & bright sun, back to W. 3:58 lots
of scattered cumulus & sun RAINFALL = .40"

15 Mar sprinkles during night, overcast
8:57 = 53° sprinkles started, windy. 10:09 Sun
out after patches of blue. light rain all afternoon

16 Mar light rain to 6 am RAINFALL = .40"
overcast breaking up 1:47 = 59° now
sunny; showers this a.m. 4:43 59° no
rain this pm intermittent sun, clouds to N.

17 Mar clear, calm 47° at 7:30 am. 8:46 = 49°
12:38 am = 59° cumuli building over hills.
2:38 cirrus off to W. 3:41 - 65° in sun; now
sky entirely variable cirrus with cumuli to W.
4:42 clear except cumuli to far W.

18 Mar hazy clear & calm 50° at 8 am 12:16 pm
cumuli under high clouds = 62° dull sun.
1:23 a Monarch over Pittos & saw 1 eastern
heavier stratus 63° no sun.

19 Mar overcast 9:23 = 56°. 10:50 dull over-
cast, 62° 1 Monarch over Pittos & oak. 11:32
another Monarch. 11:50 Monarch landed on
Pittosporum flowers. 2:06 overcast still hot
sun out, 64°. 6:17 = 59° variable stratus calm

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19 Mar, del Norte St, Berkeley, Alameda Co CA
at 6 + this evening caught a small rat
in attic - have heard it up there this past
week so put up a 'rat' snap trap. also
caught 1 in 'squirrel trap' on landing
last week. Have also heard noises out
there this past week!

20 Mar overcast, light sprinkles - 8:30 to 10
later = 59° 2:07 dull overcast & a little
sun. = 64° 3:21 - 81° in sun, clearing calm.

21 Mar overcast, 9:23 = 59° calm. Noon =
sun out, 62° clouds broken up. 12:18 Mon-
arch sailing over oak S to N. 12:30 1 to 5; 1:08
1 glau to N, 2:52 72° in sun of small clouds.
4:21 almost clear = 64° some activity today
6:06 huge scapes of *Erigeron* S to N. 58°

22 Mar Rain over night, highly heavy hard.
8:50 clouds, little dull sun. RAINFALL = .60"
1:50 - 2:25 extremely heavy RAIN, Lightning &
thunder & .68" ! Then periodic sprinkles
& sun until ± 5:30 with thunder & lightning (3)
& one minute of almost heavier downpour
(except Mexico & Iowa) due experiences
6:06 almost dark heavy rain + 7:PM .45

23 Mar Variable cumuli; 50° at 8 am; 54° at
9:20 RAINFALL over night. 54." 10 am =
more & larger cumulus clouds, 1 huge tower-
ing one to W. This am & yesterday early am
I've heard unfamiliar bird songs - one
sounded like a warbling vireo. 2:15 = 63°
cirrus & few cumulus pretty open & sunny!
3:29 = 74° 1 monarch S to N. 4:30 almost clear 62°
24 Mar variable thin overcast, 10:02 = 59° calm
(22nd - a Sunday & noticed first leaves on apple)

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24 Mar., del Norte St., Berkeley, Alameda Co.
Continued - 11:14 am = 65° 1 Monarch over oak
& Pittos. Lat of white flower clusters on Pittos
plus new growth is not quite as bright
green now. 1:49 more cumulus, 68° and 1
Monarch over Pittos. 3:31 overcast / variable
cumuli / status; = 71° no sun! calm.

25 Mar. variable clouds, sun, 63° calm.
noon = 64° dull overcast (narrow thin) sunny
12:13 1 Monarch over house, down over
oak & to W flying fast & almost erratically, = 65°
2:31 1 Monarch over oak from SW to NE. 4:05
status, some dark, no sun, 63°.

26 Mar. 9:07 = 57° clear, calm. 12:15 = 63°
Balm! plus same haze. 1:45 1 Monarch
over Pittos; 67° bright sun. 4:22 = 70° a hot
afternoon, was out of a small towering
cumuli over oak, & then to hills.
6:10 = 63° a few indistinct cirrus to W, calm.

27 Mar. 10:08 = 59° hazy & clear, almost dead
calm. (out for 2 hrs). 12:30 = 63° more of a breeze.
4:14 = 66° more haze. Have 2 monarchs today.

28 Mar. overcast of low clouds, 9:05 = 56° calm
9:38 = 59° sun just out, 1/3 blue to W, 12:14 mild
breeze, 1 long cirrus streamer @ 60°. 1:08 getting
a bit windy & hazy to W - 61°. 1:54 1 Monarch
2:46 = 64° breezy with haze & filmy cirrus to W. Sun!
4:16 = 61° occ wind, haze dull sun with shadows

29 Mar. overcast, 9:47 = 57° a few holes in fog -
calm. 11:05 overcast again (after a period of sun)
= 60°. 3:52 = 60° still overcast.

30 Mar. wake at 6 am - very light rain! 8:28 = 52°
overcast, calm. 9:53 = 53° solid overcast 10:55 light
sprinkle. 3:14 darker overcast, 55° 3:28 rain again

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30 Mar., del Norte St., Berkeley, Alameda Co., Calif.
still overcast, no rain & 53° at 4:17 .02"
rain!

31 Mar clear & calm 7:30 = 50° , 9:00 = 54°
12:51 = 63° calm Apple tree - 15% leaves out,
many deep pink buds & also white
flowers. 2:55 = 81° in sun! calm clear. noticed
caterpillar "frass" falling under oaks in back-
yard & the big oak in front! Towhees
has been in front oak of late!

1 Apr clear, calm 9 am = 61° . same condensation
yesterday found some feathers (? tail-
but still in sheaths) on steps - then
found an patch head & shoulder of a
chickadee - cat killed 9:51 occ. breezes
same long cirrus to W. 12:10 = 69° in shade,
occ. breezes hazy. 2:16 = 73° in shade. 3:24
pm = 83° in sun, calm hazy. 4:28 1 or 2 ^{calyx} flowers
(1 from S to Pittos) 1 from N or E. 6:30 = 63° ^{dawn} after sun

2 Apr Fog; 8:36 = 56° calm. 10:08 fog overcast
still, 59° . 12:45 65° dull light, few holes in fog.
12:50 sun out. 2:07 = 65° dull sun; $\frac{1}{2}$ \pm blue calm
2:30 clear; 2:48 = 76° 3:24 fog back, 77° . 6:19 = 59° ^{Fog}

3 Apr. Sunny & no pieces of fog, calm = 55°
10:50 am = 60° clear with S to N cirrus off to W.
The first small leaves appeared on my
LINDEN TREE immediately S of front
steps. 12:58 pm 65° hazy cirrus - a battered
weak cold front will be passing thru.
1:45 = 67° dull sun, almost solid thin cirrus.
5:47 = 65° hazy cirrus, stratus to W. calm
4 Apr hazy sun, thin cirrus, 9:40 = 57° calm
12:1 = 59° practically clear, cool, calm. 4:24 clear
windy & 63° a cold day inside.

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5 Apr., del Norte St., Berkeley, Alameda Co., Calif.
DAYLIGHT S. Time 7:30 = 43° calm, clear
10:42 = 52° 11:07 feathery cirrus from S. 2:00
pm hazy cirrus, 64° & 1 Manarshi.

6 Apr 51° at 9:36 am clear & calm. 1:18 = 68°
hazy clear, slight breeze. 5:49 hazy clear = 67°
cold day - all day little bird activity.

7 Apr 9 am = 51° clear & calm. 4:10 = 88° sun clear

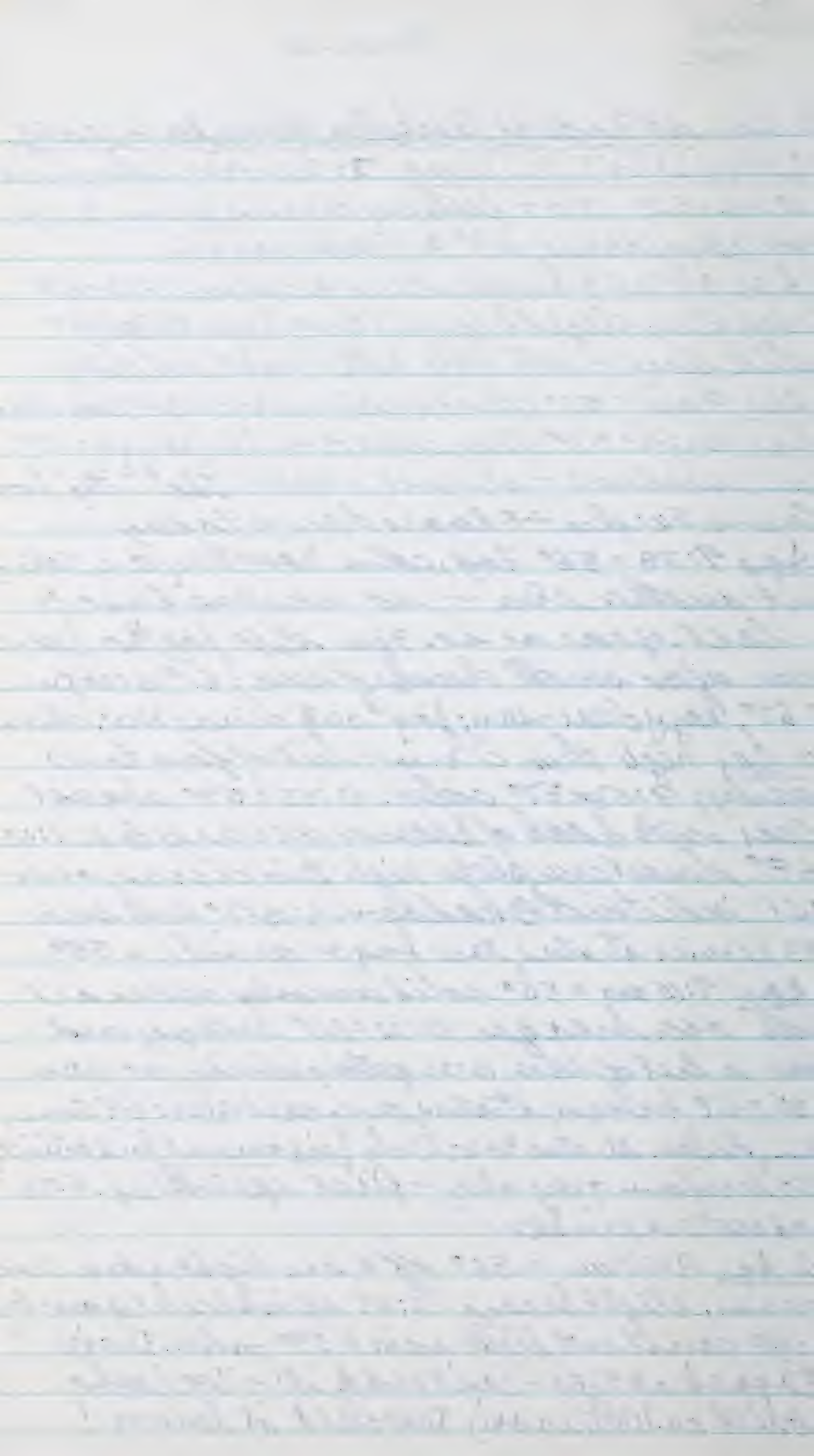
8 Apr 10:24 = 57° clear, calm. 4:41 Very hazy & = 70°
dull shadows - almost shade. The "City" took
down SW elm - 3 doors down today

9 Apr 9:28 = 56° Fog, calm. Now they are taking
out another elm - so we have lost 4
in last year as so. 3 pm still fog, tho have
been a few small chunks of sun; 6:10 6:20 pm
= 67°, hazy clear - sun; fog out & cirrus NW. calm

10 Apr high thin cirrus; bit of fog to W
early; 9:53 = 57° calm. 10:55 = 59° almost
clear with hint of heavier cirrus W to N. 1:55
= 68° almost complete high thin cirrus, over-
cast indistinct shadows. 4:23 = 71° dull sun
7:33 heavier stratus, low fog or cumuli = 56°

11 Apr. 9:15 am = 55° solid cumulus overcast
with acc. breezes. 12:21 = 66° breezy and
now a bit of sun. 12:32 getting windy, no sun.
2:35 = 67° breezy, stratus overcast. 4:25 = 64° same,
calm, darker stratus to W. Only fair amount bird activity
5:50 uniform gray sky - first sprinkles. 6:03
moderate sprinkles.

12 Apr 9:57 am = 56° off & on light rain. cloud
cover, slight breeze. 2:29 sprinkles began by
3:45 constant light rain & 59° calm. Rain
stopped at 5:30 - can't read it - Joe (who
works at bathhouse) knocked it down!



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12 Apr., del Norte St. Berkeley, Alameda Co., Calif.
5:47-60° no rain, clouds breaking up! no
sun; maybe in awhile! RAINFALL = .25 ±

13 Apr. rain gauge knocked down by work-
man. Pretty clear at 8 am - 53° ± At 10:
08 numerous cumuli & sun & 59° 3:30
mild wind, hazy clear, 66° with a few bits of
fog coming in. 4:40-65° haze & cirrus tow. l. haze
14 Apr 9:36 am = 55° clear calm, but for few
cumulus from N. 4:44-67° breezy hazy
clear after small cumuli

15 Apr 8 am overcast. light rain at 8:30 -
9:36 = 57° E 11:28 = 61° overcast. streets dry

16 Apr overcast, bit of a drizzle 10 am = 59°
calm. 11:56 = 64° dull sun, thin overcast. 2:23
= 68° thin overcast diffuse shadows. 3:02 = 67°
same but variable stratus. 3:53 = 72° same
5:52 = 63° complete dull overcast, slight breeze!

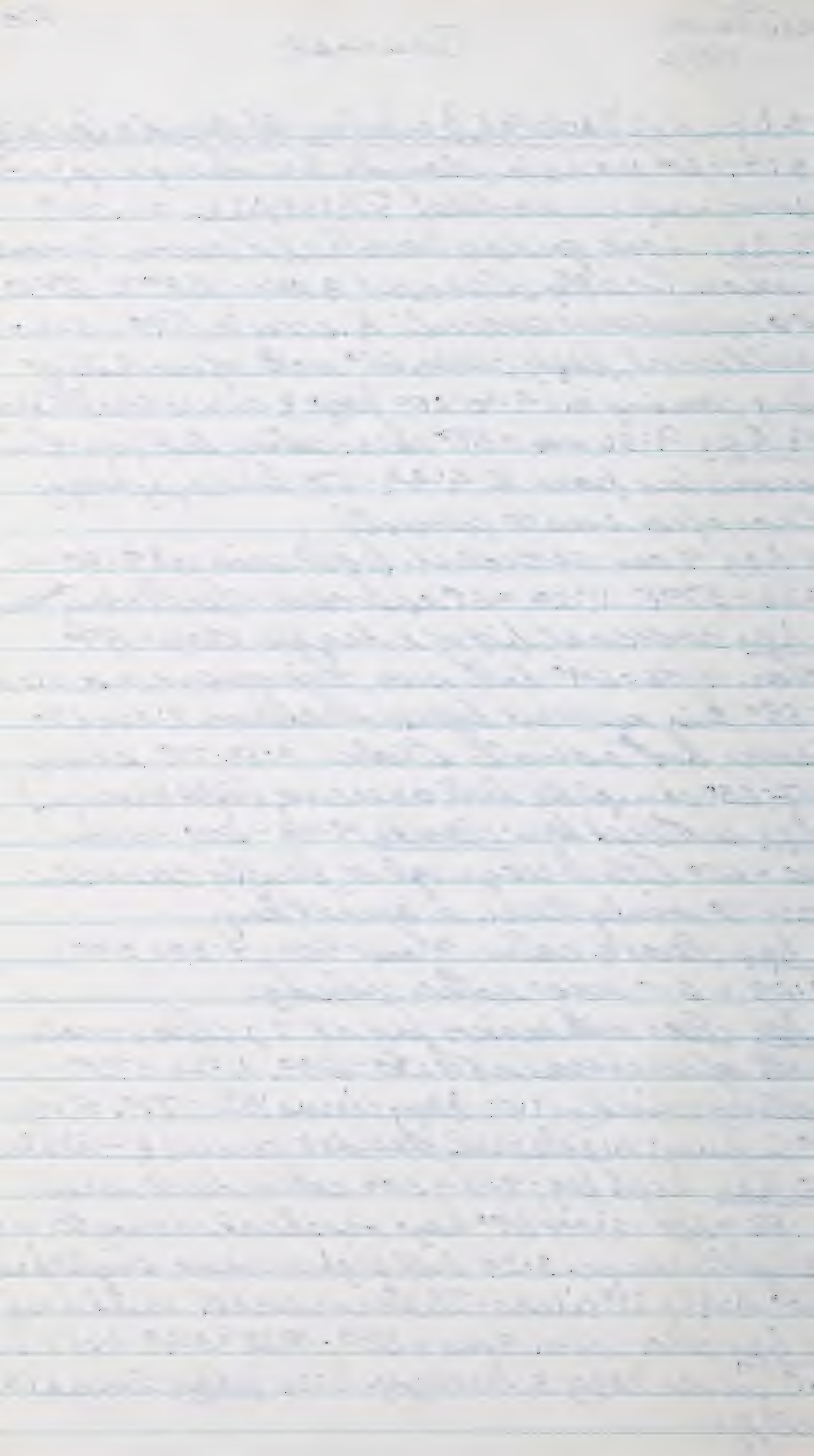
17 Apr scattered low clouds, 9:46 = 62° calm
1:10 = 67° l. breeze few puffy cumuli
6:25 = 75° windy clear. a quiet day.

18 Apr clear & calm. 8 am = 50°; 9:38 = 58°
10:09 = 61° now rather windy.

19 Apr clear with minor fog at 7; clear - calm
with a few cirrus at 9:30 = 68°. 11:22 = 73°
getting windy. 1:01 hazy cirrus 1/2 ±; 77°. 5:34 =
79° in sun; mackerel clouds & cirrus & - stratus

20 Apr high fog; 9:13 = 60° calm dull sun.
10:56 = 64° 2:04 = 69° haze overhead, cirrus to w.
slight breeze. 3:29 dull high overcast, slight breeze
70° 4:41 = 71° cirrus - stratus overcast mild breeze.

21 Apr clear calm 8 am = 50°; 9:35 = 54° 11:57 am
= 61° cirrus hazy & breezy. 2:26 hazy cirrus, 65°
breezy.



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22 Apr., Alhambra St., Beckley, Alameda Co. CA
hazy cirrus, 9:20 = 51°. 12:17 = 58° almost
calm - a cage day. 4 pm = 81° in sun, mild
breeze, clear. Very little bird activity.

23 Apr. hazy clear, 10 am = 59° a few cirrus, calm.
1:24 = 73° almost dull sun, breezy & thin
high overcast. 4:08 = 80° dull sky & sun, calm.

24 Apr. high thin cirrus overcast 9:56 = 65°
calm. 1:10 = 77° bright sun, clumps of cirrus.
3:58 = 84° outside, solid cirrus overcast, calm
muggy. Very little bird activity - usual gups (-).
4:33 = now some darker stratus. 6:56 more
& heavier stratus, 72° calm. a quiet day.

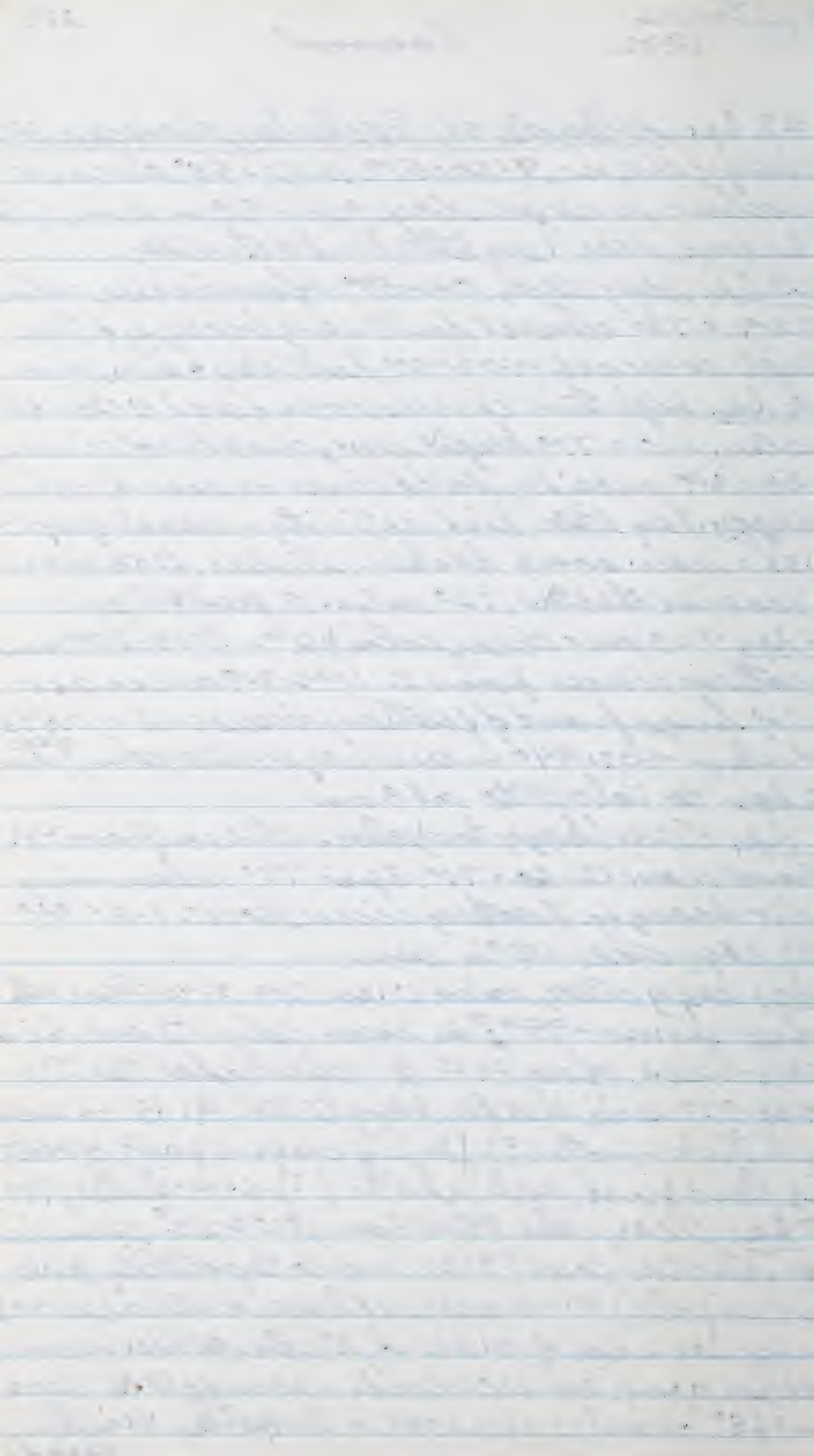
25 Apr. 9:16 am = clear, calm & 61°. 11:15 = 68° now
feathery cirrus from S. 1:45 = 74° overcast
W of huge front of feathery cirrus S-N - W, ^{2/3}
of sky. 4:07 = 94° in sun hazy clear, calm, ^{few} cirrus.

26 Apr. to Palo Alto at 8 am

27 Apr. clear (hazy tow) calm. return from PA
about 11 am 12:30 = 71°. 3 pm = 77° becoming
a bit breezy. Feathery cirrus to W. 3:36 = 84°
5:53 hazy clear = 91° in sun.

28 Apr. hazy clear, calm 10:30 = 67° 3:45 clear with
a few cirrus - 95° in sun - calm. Few birds
two bees, a few H. F. & 1 checkmate. No J's
4:30 = 87° semi shade, hazy to SW. 4:45 - a small
whitish moth (?) flying over N part of oak -
is this first oak moth (?). 6:10 = stratus; 79°!

29 Apr. clear, calm 5:30 at 8 am; 9:08 = 62° cumulus
& stratus tow. (9:25 up to top utility pole
as circle.) 9:54 nearest layer well over oak
irregular edge of mass of stratus closer some
darker gray. can see clouds moving to N. 12:03
pm = 68° cumulus overcast, a bit patchy. Variable
winds



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29 Apr, Del Norte St., Berkeley, Alameda Co., Calif.
1:22 = 71° overcast - hole to NW 2:04 darker
to W; 1/2 open E & S. 3:32 solid overcast,
breezy darker stratus 6:24 scattered cumulo-
stratus = 66° occ. breezes. strange day!

30 Apr 9:54 am = 59°; variable scattered
clouds, TRACE of rain last night. 1:33
= 66° clear, slight breeze, after puffing cumuli
3:36 = 81° in sun, same. 7:24 clear, slight E., = 64°

1 May clear, calm - 10:26 = 60°

2 May clear, calm 10:22 = 64° 12:05 = 70° with
slight breeze - 1:53 = 77° 4:25 = 89° in sun, same

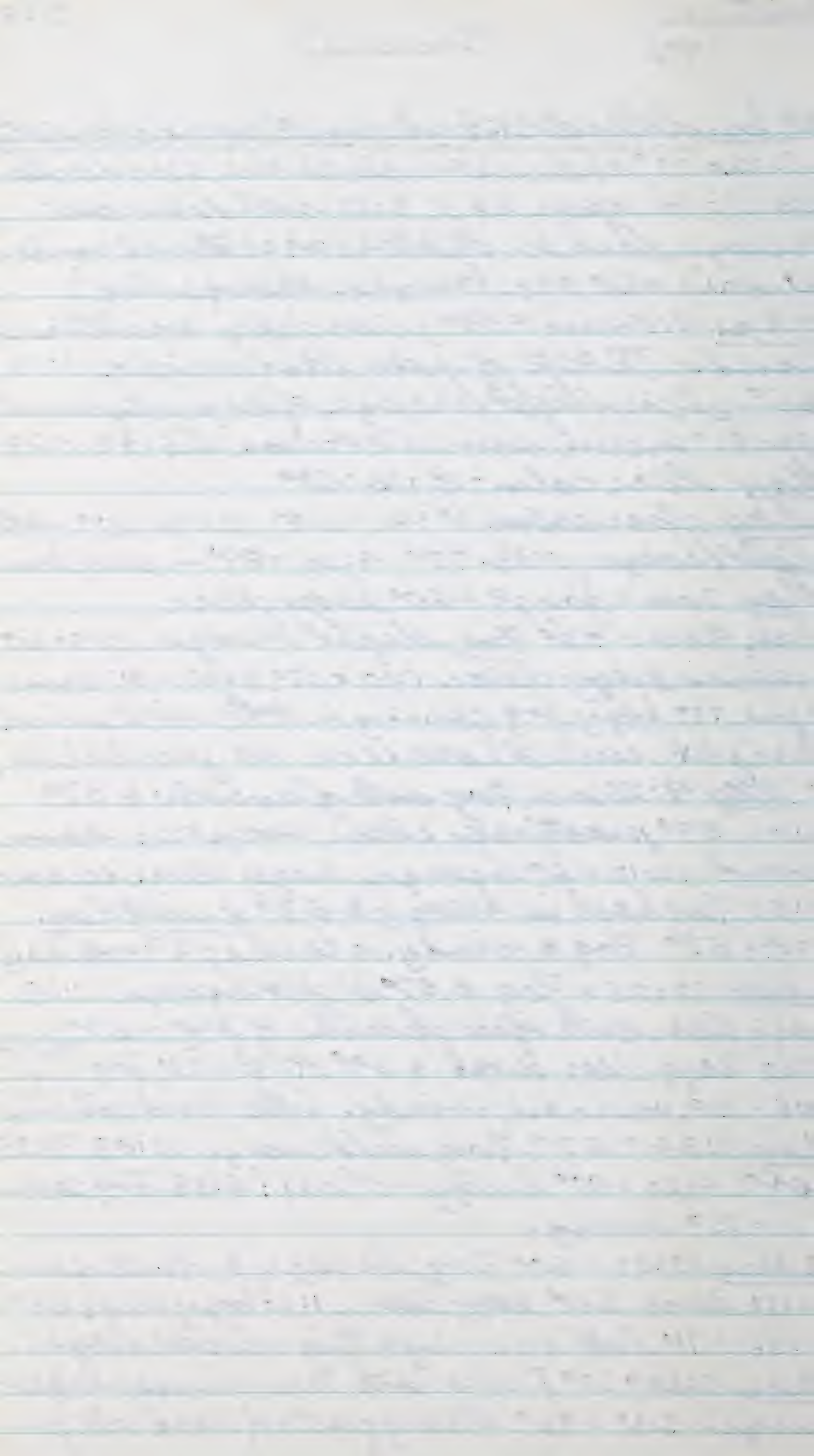
3 May 7 am = fog; 9 = 60° hazy clear.

4 May 8 am = 56° fog, slight breezes. 11:18 = 60°
breezes, hazy clear. 1:10 = 67° 3:47 = 81° same
6 pm = 73° hazy fog coming in with mild wind
bright sun. I have seen no juv. birds!

5 May 9:26 am fog with drizzle & 57°
10:10 = 59° practically clear, except w. same
wind. 12:17 = 61° breezes, hazy clear, sunny
3:50 fog back in, breezy & 63° quiet day.
6:14 = 57° fog & windy. a touch of 7th day!

6 May 10:25 = fog & 57° slight breeze 1:14
hazy clear with few chunks of fog - 63°
2:30 hazy clear, wind & 64°. 4:40 = 72° fog coming in!
6:05 = 61°, overcast, windy. little bird activity
7 May 9:34 = 57°, fog, mild breeze 12:08 fog
& 64°. 4:20 = 80° breezy - clear! 6:38 fog coming
in = 75° breezy.

8 May 10:07 = 60° fog, breezy & dull sun.
10:38 same, but hazy clear. 1:20 hazy clear 65°
2:36 = 71° dull sun - high thin cirrus layer.
9 May 9:30 = 70°? clear with thin cirrus, slight
breeze. 2:30 = 86° strong gusts of wind all p.m.



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9 May, del Norte St., Berkeley, Alameda Co., CA
3:31 = 93° in sun breezes. 5:29: 97° in sun
breeze, hazy clear.

10 May clear, calm 9:29: 61°. 1:50 = 66° wind
for last hr +; fog forming over the hills
5:26 = 71° haze, a breeze whips of fog. 3 toad moths

11 May 9:28 = 59° fog, slight breeze; first
sun max. 10:04 = 59° clearing hazy. 12:43
clear hazy, 61° breezes. 4:07 Hazy, clear, a
bit of fog over hills & 78° in sun breezes.
4:14 - 1 toad moth

12 May fog; 55° at 9:13. 9:50 windy - whole
elm foliage moving. 11:15 fog, 60° light
breeze. had a periodic dull sun, 59°. 1:16
slight breeze, 60° clear, hazy & indistinct
cirrus from SW. 4:15 windy, dull cirrus = 73° ^{in sun}
4:41 very windy, hazy cirrus 70° in sun ^{dull} day
5:03 1 toad moth. Grass still under oaks

13 May ~~for~~ broken fog - sun, 9:20 = 56° slight
breeze. 2:24: 63° hazy clear, clear cirrus.
3:06 first toad moth. 4:07 hazy overcast, 69°
hazy no sun. a strangely quiet day!
6pm = 60° fog & cirrus, dull sun.

14 May fog, 54° at 9:14 10:58 am sunny (58°)
breezy small bits of fog & hazy. 12:16: 59°
hazy clear.

15 May 9:09 = 55°, slight breeze, 75° to fog.

11:13 am = 57° bits of fog & high cirrus to W. 2:30 =
63° windy, clear - haze. 4:16 hazy clear & calm ^{78°} in sun.

16 May broken fog. 9:34 = 59° breezy; sunny
11:45 = 61° hazy clear. 3:04 = 68° breezy lots of
cirrus & " . 4:36 = 77°, 1 toad moth - same

4:40 - 2 OM;

2:35 =

17 May spotty fog, clearing 9 am 9:33: 59° 68°

Main body of handwritten text, consisting of multiple lines of cursive script. The text is mostly illegible due to blurring.

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17 May, El Norte St. Berkeley, Alameda Co. Calif.
Carib: 3:39 breezy hazy sunny & 88° sun
3:43 first (1) OM = aab-moth; then 2. 5:57 =
77° in sun, clear, bit of haze, slight breeze
= about 4 OM!

18 May fog 9:29 = 61° few holes 10:41 = 64°
same. 10:59 = 65° 1 OM. 11:21 brief dull sun.
2:08 pm scattered fog & cirrus dull sun = 70°
3:58 = 80° long cirrus streamers, sun, 2 OM
4:34 dull sun, 82° in sun; 3 OM(+). 4:45 probably
4 OM.

19 May scattered chunks of fog & bits of sun
9 am = 62° almost calm. 11:26 = 64° almost
clear. 2:34 bright sun & sky, bits of fog &
cumulus, 67°. 3:57 4 OM windy - fog coming
in, 69°. 5:45 = 80° windy fog-clouds to N. Sun

20 May clear! 10:48 = 63°F 12:45 a bit
breezy, a few small cumuli & 68° 4:24 clear,
90° in sun, breezy. 2 + OM. 6:08 = 88°F
5 or 6 + OM

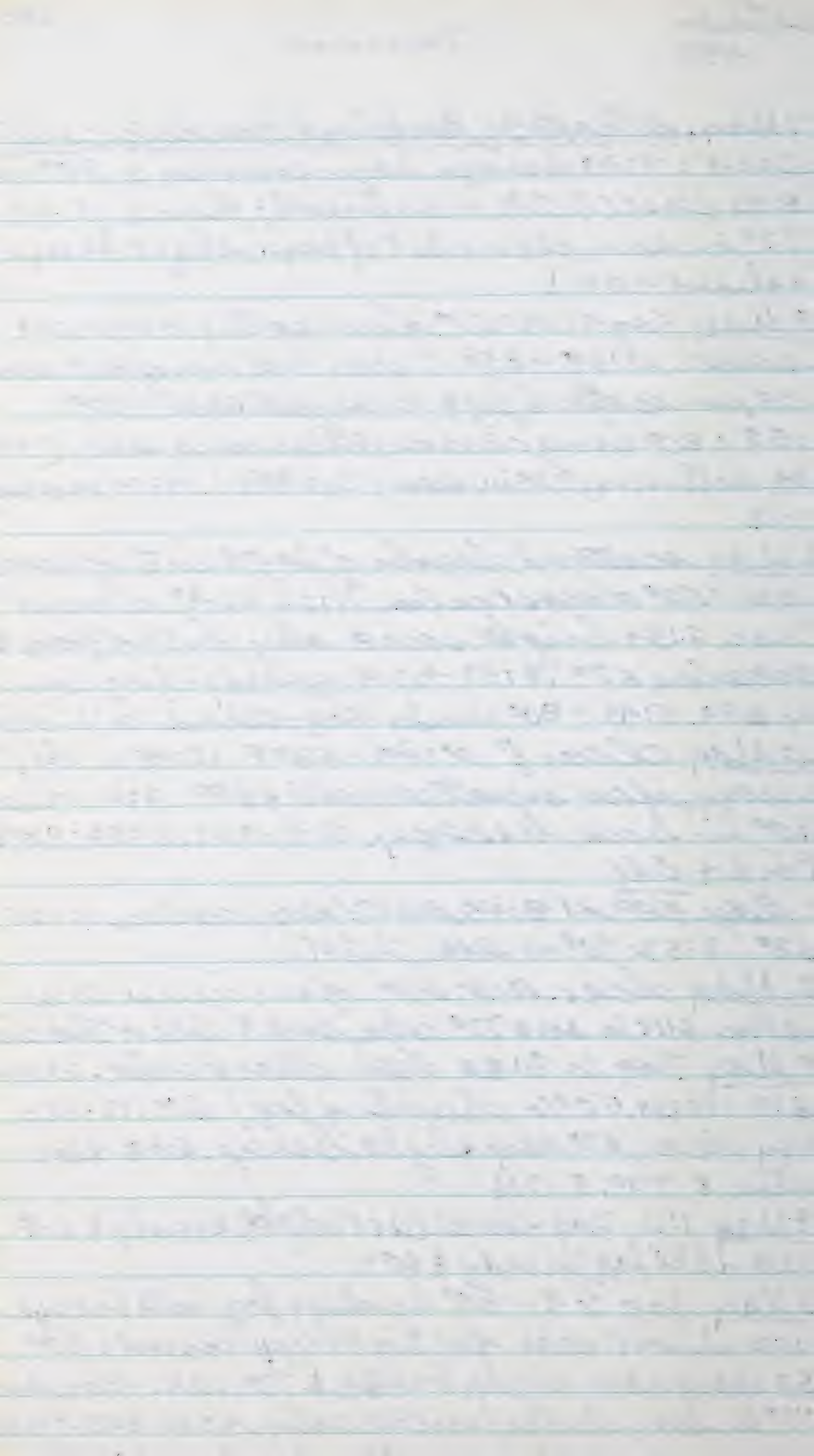
21 May ~~58~~ at 8:43 pm clear, calm 10:16
= 63° 3:57 = 90° in sun, 2 OM.

22 May clear. 10:11 = 62° few cirrus to W,
calm. 6:19 in sun 77° calm, sun & lots of thin cirrus

23 May fog to 8:30 then clear & calm. 10 am
= 61° 10:34, 50° 40 chunks of fog! 60°. 12:05 =
hazy clear, 62° new slight breeze. 6:08 clear
calm & 79°. 3 OM

24 May 1:16 fog since last night, windy & 64°
5:28 still fog, windy & 60°

25 May fog to 9, = 58° broken fog, mild breeze.
10:02 almost clear, a few thin wispy cirrus; 60°
1:53 many more cirrus, breezy & 70°; 1 OM. 4:02 pm
58° in sun, stratus from SW, calm. 4 OM. 4:25 - 7 OM
5:57 = probably about 12 OM moths



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26 May, del Norte St., Berkeley, Alameda Co., CA
Fog, 9:44 = 61° with mists & a recent
hale in overcast. 10:31 almost completely
clear, 63° 2:57 first sun. 72° 3:46-89° clear
3:54 = 20M. Only an occasional towhee
near in cab. 4:03 - 50M at least. 4:42 at
least 7-90M 6:31-810

27 May Fog 9:15 = 61°. 10:34 = 60° clearing. 2:20
breezes, whiffs of fog, 68°. 2:31 30M = 66°. 3:19
71° in sun, getting heavy - cirrus & thin fog.
3:36-60M 3:44 = at least 70M. 3:56 overcast
4:04 - 100M? very active. 4:20 lots of activity
over cab 10+0M 4:47-67° 10M, windy, overcast

28 May Fog (with spotty clearing) = 4:14 59°
10:20 am almost clear, 60° calm. 12:40 clear
- hazy & windy 63° 2:38 = 65° 10M. 5 pm -
63° fog in. at least 10-120M.

29 May 8:49 am fog, windy, 60° 9:11 saw sun.
11:19 am hazy clear, breeze, 64° 1:54 first
0M; 66° 3:38 = 79° in sun & ± 0M. 3:40 & &
& on line. 5:54 = 10M, 81° hazy breeze.

30 May Fog, 9:46 = 63°. 10:49 almost clear, haze
breezes 63° 3:41 = 77° breeze 30+0M 6:33-80°
bright sun, calm, clear, no activity.

31 May Fog, 10:51 = 59°

1 Jun. Fog, 9:40 = 59°. 11:27 almost clear
2 pm clear, first 0M & 66°. 3:28 pm 72° in sun
- 10M; then 20M. 3:33 = 50M. 5:48 sun, few
cirrus from SW = 83°, 10M.

2 Jun. Fog 9:21 = 59° 10:23 am dull sun, still
overcast 62° 3:10 1/3 hazy clear, 1/3 returning
fog, breeze 70° in sun. 20M. 5:49 bright diffuse
sun-fog-71°

3 Jun Fog, 9:56 = 59° 12:27 still foggy 12:54 sun
clear to W,

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3 June, del Norte St. Berkeley, Alameda Co., CA

1/4 fog, Muggy. 2pm = 63° from 3:52
= 85° in sun, 20M. 4pm 50M. 6pm = 83° 20M

4 June. Fog to 8:30. 10:13 clear, calm & 59° . 1:48
10M; 67° bright day. 2:21 - 65° windy, 30M.
3:51 - 60M & 85°

5 June. Fog, 10:07 = 62° . 11:05 sun out, fog
breaking up. 12:12 cirrus, dull sun, occ. wind
2:02 general overcast, no sun, lots of wind
& 65° 3:03 same 20M.

6 June. Fog; 9:30 = 59° , 1/3 blue. 11:21 = 61°
windy, 1/3 blue (low) no sun. 1:09 pm
64 breezy hazy clear. 1:50 = 66° 2:27
very windy, 10M 3:49 same except 83° in
sun & 20M. - then 4 or 50M.

7 June Fog early 10:53 = 62° mostly sun
12 noon - windy, clear with bits of fog, 62°
in 5 minutes & Fox Sq. up line from
cab to Pittos. 2:34 - 64° 2 60M 4:29
= 30M & 83° hazy clear.

8 June. Fog, dissipated by 9 am. 10:15 = 60° .
Clear, calm. 10:49 3 Fox Sq. down line.
10:52 another Fox Sq down line from Pittos
to cab. 12:24 60° windy, bright sun
few patches of fog. 4:21 = 82° in sun, wind
hazy clear, few small chunks of fog.

6:02 complete fog, breezes, 60° 8:30 Sun down
 57° calm sun at horizon just to Rt. of the
utility pole or circle. Fog racking in.

9 June. Fog, 9 am = 60° 9:40 = 59° 2/3 blue
with few cirrus. 12:10 few bands of cirrus
N to S & 64° breezy. 6:10 clear hot hazy
= 93° in sun, calm.

10 June 8:00 = 56° Fog 10:27 - 62° few holes in
fog, 10:33 few high small cumulus / stratus

[The page contains faint, illegible handwriting throughout.]

10 June, del Norte St, Berkeley, Alameda Co. CA
11:44 am wind, bright sun, 60° clear
mist for long stratus-cirrus cold
front up N. 1:28 - 64° in shade, bright
sun. Nearby cumulo-stratus to NW, will
be some towering cumuli. 4 pm
bright sun high small cumulus &
89° in sun. 6:05 alto-cumulus, 71° breezy

11 June 9:18 = 57° clear, breezy, with a
few small chunks of fog. Clear at 6 am
10:20 windy, many small ill formed
cumuli & 59° 2:02 same but more
smaller cumulus, 64° Occ. strong
gusts of wind. 3:27 = 67°, towering clouds
to E & W. 7:11 - 76° clear, few cumuli & wind

15 June returned from Meridocino at 1:16.
all the way (esp from Liverdale. S)
heavy dark bottom cumuli 95% +
cover, very dark N bay & S. East Bay
60° 3:43 = 78° mostly clear, few cumuli.

16 June clear, occ. breeze 59° at 9:49 am
1:33 clear, 63° slight breeze

17 June fog to 8:30. 9:00 = 59°, 43° clear.
12:45 = 63° cirrus to SW. 2:24 = 67° more
sweeping cirrus.

18 June 9:57 = 59° Fog. 12:56 Fog, occ. sun
65° 3:04 67° windy fog coming in. 4:43 = 85°
having bright sun, a breeze. 6:18 = 63° fog &
diffuse sun. calm

19 June fog, 9:21 = 59° 9:46 clearing, dull
sun. 10:17 practically clear, rather hazy
sun, 60°. 4:21 = 83° hazy clear, fog to W.

20 June clear. 9:32 59° 1:17 clear light
breeze, 64° 3:25 = 68° (? in sun) whisp of fog
3:50 10M = 79° by 7 - fog again - 58°

[The page contains faint, illegible handwriting throughout.]

Christman
1992

Mendo. Co. Journal

11 June

Left home 6:21 am 1072; Petaluma
at 7; Old Cape 7:49 am 1159 (86 miles)
L.B.V. at 10 am 1225 (153)

BLC-K & AC were at "La Bolla Vista" from
Mendo. Co. Res. It is just a house the large
roomy 1st floor S.D. where the road just
straightens out. It's a 25' x 40' \pm barn
like bldg. in narrow lane - an abrupt
right turn to a white "gallery". A small
parking area (2+ cars - small) gate -
a large, eccentric nice garden 70' x 50' \pm
very weathered no finish! Faces SE
to Van D. R. Bay, etc (night flashes
from 2 light houses to SE) The
interior, a 2 who likes to BUY, small
etc K-N. Lots of french stuff 4 or 5
mules! Well laid out, 2 BR, 2 Baths
& a charming white room up stairs -
that impressed me - they are from
St. Louis - lots of photos of 2 boys
& a charming daughter & all saw
the canning & Europe! Very really
short glasses: "It's better to live
rich than die rich." Birds: lots
of allen hummers, scrub jay - 3
ravens once, heard a P-5 flicker,
many barn Swallows & few cliff
& perhaps few V-G S. On the 13th 1
saw many more. The disadvantage
is traffic noise 40-60' from bedroom.
Obviously they haven't cheap & enhanced
so 160+ a night. The garden is nice
but no named birds! Not one! No
butterflies either.

1897
The following is a list of the names of the persons who have been elected to the office of Justice of the Peace for the year 1897.
The names are as follows:
1. John A. Smith
2. William B. Jones
3. Charles C. Brown
4. David D. White
5. Edward E. Black
6. Frank F. Green
7. George G. Hall
8. Henry H. King
9. Isaac I. Lee
10. James J. Miller
11. John K. Nelson
12. Lewis L. Phillips
13. Martin M. Reed
14. Nathaniel N. Scott
15. Oliver O. Taylor
16. Peter P. Walker
17. Quincy Q. Young
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1163. Quincy Q. Jackson
1164. Robert R. Keller
1165. Samuel S. Lamb
1166

Wristman
1992

12 June

Headlands/Mendo. Bl. oystercatcher (1),
Pigeon guillemot (1), Northern
Harrier (1). ♂ gray, gold finch (am.
1 or 2 yellow ones in grass weeds,
cliff Swallows (nesting on sea
cliffs).

Mendo - on 15th am 2 large terns,
lots of harsh calls, over head at
art center

14th = 4 ravens about cypress
N of art center, harsh crows & 1 yap
(?). Also 3 larks at La Bolla Vista.

Swallows at LBV: Barn, mud
cliff (plus perhaps a few V-g).

lots of Brewer blackbirds, 1 Osprey
lots of Allen hummers, a few
scrub jays

Trip home: 10 am 1273 (hab. via
combi). Arrived at 1:26 = 156 mi
homeville at 11 am. Arrived 12:24,

The first of these is the fact that the
 government has been unable to raise
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Christina
1992

Journal

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21 June, del Norte St, Berkeley, Alameda Co
Fog. 59° at 9:50. 9:47 1/2 clear, 61°.

caught a Fox Sq. first thing in am release
Bob. Hart center. 2pm ± caught another
Fox Sq - trap it up above J. Nicks Park
Fog most of afternoon, 5:47-65°

22 June Fog, a bit broken, 60° at 9:42
11:06 1/4 fog, light breeze & 62° 1:04 windy
still bits of fog, 64° 6:18-64° Fog back.

23 June Fog, broke up a bit by 8:30,
at 9:51 = 64° stratus from E, dull sun,
calm, 11:23 overcast & high stratus, 65°
12:24 = 68° same 4:12 = 67° solid overcast
of stratus with grey decks, calm.

24 June about 1 am several flashes
of lightning, heard no thunder.
a.m. is fog, 10:15 = 62° calm caught
a Fox Sq. yesterday late, this a.m. to
John Rinkle Park 11:14 few holes in fog
& 67° dull sun. 12:01 sun, partly cloudy to
S - NW, 65° breezy. 2:30 clear, slight breeze
71° in shade 3:48 = 64° 5:56 fog returning, 75°

25 June overcast clouds 9:11 = 61° 12:24 = 78°
overcast breezy 1:08 clear & almost windy.
2:44 windy clear & 70° in shade. 6:14 = 85°

26 June Fog, calm 9:17 = 62° 1:50 = 69° clear
breezy 3:52 = 87° clear, breezy.

27 June 10 am 62° Fog. 11:24 = 65° dull sun,
partly clear in small patches, bits of fog, hi
filmy cirrus & darker stratus to W.
1:06 clear, windy, 68°, cirrus overcast to W.
2:02 pm wind, cirrus all clear 69° 4pm = 80°
windy 7/8 hazy overcast little activity, haze
4:49 = 86° in sun, hazy clear, wind cirrus to W
4:54 = 84° = 2 Oak Yuccas (first for seedling)

Handwritten text, likely a letter or document, written in cursive script. The text is mirrored across the page, suggesting it is bleed-through from the reverse side. The handwriting is dense and fills most of the page.

Christman
1992

Journal

234

22 June, del Norte St. Berkeley, Alameda Co., CA

a variety of all cloud types 10:42 63°

10:47 the first Foxg. I've seen since

the third was 'removed' last week.

3:03 overcast breezy 69° darker to W.

3:40 now overcast. winds lighter. still too

1 spot of dull blue & winter day 4:17

edge to clouds - clear to W. - 80° dull sun

29 June 9:27 clouds with occ. light

sprinkles. 65° 1:20 darker overcast, wind

in again sprinkles 2:49 now a rain

3:48 harder again, 63° 3:58 almost a down

pour. 4:45 now a fairly gentle persis

tant rain - like winter! 1" puddles

on landing. 6:54 light rain, 59°

30 June cloudy 59° 8:49:52 am a few

drops have fallen - a good soaking

rain. 1:38 windy clear, 67° breezy,

rafts of cumuli to W. sunny.

1 July clear with drunks of fog; 10:07 64°

2 July 6:59 am fog, 58° calm. Sun out

about 11:30; 12:40 67°

3 July Fog: first sun 9:15 at 63°. 10:20

dull sun, 64° high cirrus overhead, cirrus

overcast to W. 11:25 heavy fog overcast.

1:49 dull sun overcast, occ breezes 70°

2:30 see 2 Foxg. 3:32 hole in fog, sun, wind

broken high cirrus 69°

5 July back from Pt Ahout noon clear

clear, few breezes

6 July clear, 9:36 = 65° stratus (S-N) cirrus

7 July Fog; pretty clear by 8:30 = 64°

10:02 clear, 65° 3:40 clear, a breeze 9:30 in sun.

8 July low fog (down to Indian Rock), 60° - 8:20

clear by 9:30; 10: = 63° 1:01 = 77° low cirrus, 100° at 4:15

in sun.

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Christman
1992

Journal

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8 July, del Norte St, Berkeley, Alameda Co, California.
6:02 = 91° in sun, thin cirrus overcast

9 July clear, with a few cirrus, 11:07: 75° H₂O.
day. Brian up

10 July bright sun with cirrus
streamers to N. 64° at 10 am. 2:04 = 72
more cirrus.

11 July 9:55 = 64° Fog, calm. 11:45 still fog
a lot of bird activity esp. 10+ finches
& hawk sp., towhees! 12:37 now windy,
67° fog persists: 1:44 dull sun, wind
opening hazy blue & dull stratus. 2:04
dull sun, fog almost disappeared. 4:16 ^{nick} 72°
6:07 = 68° fog had in, breezy.

12 July Fog, calm, 67° at 8:56 am. 10:13 Fog
breaking up, sun 63°

13 July 9:24 am Fog, 67°. 10:40 clearing, sun
out 65°

14 July 9:57 am Fog breaking up slowly,
64° sunny.

15 July clear with bits of fog to NW at
10 am = 63° 8:40 almost dark fog coming
in @ 61° nice warm calm day.

16 July Fog 10 am caught a (♀) Fox Sq -
just happened to be talking to Jones
at MVI - he wanted it, so he came
by in the (blue) Blazer & took it to
Mesa.

18 July Fog. 10:15 - few holes in fog, 67° dull
sun. 4:57 clear, warm (94°) breezy = no
bird activity, plenty of food! (1 ♂ H. Finch
very at D-4). There are 5 doves.

19 July Fog, clearing & sun by 10:40 am
2:42 bright sun, very breezy - 71° 6:04 71°
81° windy no fog, bright sun.

1. The first part of the paper is devoted to a general discussion of the problem of the origin of life. It is shown that the problem is one of the most important and interesting in the history of science. The author discusses the various theories of the origin of life, and shows that the most plausible is the theory of spontaneous generation. This theory is based on the fact that life is everywhere, and that it is impossible to find a place where it does not exist. The author also discusses the question of the origin of the first living organisms, and shows that the most plausible theory is that they arose from non-living matter. This theory is based on the fact that the conditions of the early earth were such that the formation of life was a natural consequence of the laws of chemistry and physics. The author concludes that the origin of life is a problem that has fascinated mankind for centuries, and that it is one of the most important and interesting in the history of science.

2. The second part of the paper is devoted to a detailed discussion of the theory of spontaneous generation. It is shown that this theory is based on the fact that life is everywhere, and that it is impossible to find a place where it does not exist. The author discusses the various experiments that have been conducted to test this theory, and shows that the results are all in favor of it. The author also discusses the question of the origin of the first living organisms, and shows that the most plausible theory is that they arose from non-living matter. This theory is based on the fact that the conditions of the early earth were such that the formation of life was a natural consequence of the laws of chemistry and physics. The author concludes that the origin of life is a problem that has fascinated mankind for centuries, and that it is one of the most important and interesting in the history of science.

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Christman
1992

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20 July, del Norte St, Berkeley, CA
scattered fog, sun + 63°

21 July clear (minor clouds, fog) 9:25 =
62°, slight breeze. 6:41 - 7:30 clear breeze

22 July clear, 61° at 9:28 am 1:38 - 71° clear
slight breeze. 2 Fox & Sq. appeared
out of Pittos up line to ledge -
a big chase.

23 July, clear, calm 65° at 10 am. ^{day} warm

24 July Fog, clear by 9 am = 61° calm

25 July Fog, wind & 58° at 10:22 am.

clearing between 12 & 1. 1:24 = 64° 4 pm
= 91° in sun. small pieces of fog returning
6:17 hazy clear, 82° calm.

27 July Fog, clearing by 9:30 am.

28 July Fog, clear by 9:30. 10:10 = 60°
12:37 = 63°

29 July Fog, 10:54 am = 62° 1:02 still fog
67° 2:41 clear, 65° breezy.

30 July Fog 10 am = 59° 12:10 = 63°; 3:17 =
clear, 67° breezy. Talked to Anne C.

2 weeks ago; she had been in
Spaarden, Wash. a very early fall there.
6:51 = 79° in sun, clear, breezy

31 July Fog, almost clear by 9:30 = 59°

1:03 clear, cirrus to w. slight breeze = 65°

3:31 = 73° more cirrus, w. above clouds

1 Aug Fog, 9:33 dull sun, 61° 10:33 more dull
sun, 1/2 clear, 1/2 fog

3 Aug Fog; 9:15 open to N-W & 58° cool
night. 11:19 almost clear of fog & 59°

4 Aug clear 55° at 8 am; 10:30 = 63°
with few breezes. 3:29 clear, breeze, 75°

5 Aug Fog, 10:08 = 63° 12:14 = 65° 1/2 fog, sun
That report July was a record high temp. month

Christman
1942

Journal

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6 Aug. Del Norte St. Berkeley Alameda St.
Fog 100m - 61° 10:30 almost clear, sunny
same temp. 12:24 = 61°; lines of cirrus
to W (S to N)

7 Aug 9:17 = 59° & Fog. 3pm sunny, fog
returning, 68° 3:30 bank of fog approach-
ing - solid! too breezy. 4:15 Fog
S to N to W, windy = 88° in sun.

8 Aug. Fog, clear by 9 = 62° little bird
activity since 11am ± new bright clear
= 76° very slight breeze

9 Aug thin wispy fog to 8:30 clear calm
all day 3:46 = 93°!

10 Aug at 7:15 am low thin fog, clear with
high cirrus by 9 - 63° 2:15 77° in shade
more cirrus. 7:14 = 75° cirrus, few stratus

11 Aug Fog to 8:30 ± clear, few cirrus
6:10 at 9:19 3:38 = 76° clear, but few

small chunks of fog to N. more to W.
6:09 - 73° Fog low to W; make several stratus
5 - N.

12 Aug Fog, 9:23 am - 62° 4pm 88° Clear, but
fog bank to W & hits canyon in overhead

13 Aug 9:51 am - 63° Fog

14 Aug Fog, 9:33 am 61°. 10:30 Sun, spot
of blue. 2pm 69° cirrus & high stratus. 3:56
hazy sun. 81° more cirrus ill formed stratus
6:03 - 69° almost solid stratus overcast.

15 Aug cumulo - stratus cover 75% ±
9:24 = 65° 4:08 almost clear - 1 patch, 93°. 6:35
- clear, bright, 91°

16 Aug Fog to ± 9 new clear at 10:11 = 63°

17 Aug Fog to 10 ± 10:40 = 60°

18 Aug Fog, sun from E at 9am - 59°. 10am
59° almost clear, sunny.

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[Faint, illegible handwriting in a cursive script, likely a historical document.]

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1992

Journal

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19 Aug ~~del Norte St. Berkeley, CA~~

Fog, clear by 9 am. 9:55 - 59°

20 Aug 9:12 = 59° Fog. 9:48 sun, clearing

21 Aug 7 am clear, 7:30 - 8:30 scattered

fog. 9:17 clear, cool w. breeze = 57°

10:39 more of a breeze; 62°

22 Aug. 9:15 am clear, calm, 58°. 3 pm - 74°

in shade, clear, slight breeze. 3:20 ? 1

large butterfly - ? Monarch? well over

road to SE. 3:31 high haze - off tan breeze

& 79°. 3:42 - 85° 5:56 hazy (smoke to N) = 78°

23 Aug hazy clear, 10:31 = 67°. 1:56 clear, 76°

4:12 flew thin cirrus to NW; 98°

24 Aug clear with thin cirrus SW to NE

59°.

25 Aug. Fog - high, thin. 9:22 = 60° clear

26 Aug hazy clear, 10 am - 61°. 3:41 - 77°

27 Aug. 9:15 clear, haze, fog to 9 ±. 57°

28 Aug Fog, 9:46 - 60°. 12:12 pm darker fog

64°. 12:49 first sun 66°

29 Aug. cloudy briefly heavy sprinkles

at 6 ± am 9:15 57°. 11:04 - 63° same

wind. now. 11:17 first sun, same blue

to SW., less fog with cumulus/stratus.

2:06 more cumulus, some large & dark, 63°

5:57 - 65° bit of sun, overcast, breezes.

30 Aug. 12:38 overcast, breezes 57 - 65°

3:55 - 62°, slight breeze, overcast

31 Aug. 10:04 - 61° Fog. Clear by noon, 64°

5:31 sunning, few cirrus = 81°

1 Sept 9:47 am fog, 62° 10:22 complete

overcast - half sky but occ. sun from E

11:13 just about clear. 6:30 - 78° high cirrus/cumulus

2 Sept 11:21 am fog, 63°. 12:10 - 1/2 clear. 1:16

65° now cirrus from SW

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2 Sept, ~~all the way to SE~~ ~~6:00~~ ~~clear~~

1:22 low 1 monarch ~~fast~~ from NW
and ridge to SE First sun, clear
6pm - 68° clear, breezy, wedge of water.

3 Sept. clear, except fog over hills.

9:28 - 58° 11am - patchy fog 630 1:29 - 67°
strong breezes, ill farmed cypripediums.

5 Sept 10:45 am clear with high cirrus

68° 12:40 high haze, dull sun, 76°

8 Sept clear 59° at 9:34 am 4:14 almost
no bird activity today, food out. 91° clear
calm.

9 Sept Fog, 10:16 - 61° calm. 11:05 am ^{now} clear.

5:30 Fog back. 6:18 - 59° very light breeze

10 Sept low clouds, drizzle at 8 am 60° at

10:04 am. 1 pm still clouds - 63° 3:34 -

73° a breeze past clear rest fog. 6:02

slight breeze, 71°, fog soaring in to N.

11 Sept patchy fog (- 30%) few cirrus /

clear. 9:23 - 61° 10:18 bank of fog from

S; 63° dull sun. 10:23 Monarch from

low flying about sap - faded in sun.

5:54 clear, with a few chunks of fog - 76°

12 Sept fog to 10:15 am, 1/2 clear, 10:30 - 62°

3:18 clear, calm, 71°

13 Sept clear with feathery cirrus 10:31 - 68°

4:22 - 81° dull sun - lots of cirrus

14 Sept. scattered fog; 9:24 - 55°

15 Sept " " 9:19 - 56°

16 Sept Fog, 11:03 - 61° 2:14 clear & 63°

17 Sept Fog, 10:14 - 59° 1 pm clear, 61°

18 Sept 11 am haze clear, 61° 1 Monarch to

SE 2:25 another Monarch. 6:14 fog in, 61°

21 Sept. fairly low fog, 10 am - 57° 11:21 dull sun

Fog & 63°. clearly moon; 1:14 - 64° 3:45 - 78° clear

1. The first part of the paper is devoted to a general discussion of the problem of the origin of life. It is shown that the problem is one of the most important and interesting in the history of science.

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22 Sept, del Norte St, Berkeley, Alameda Co CA
clouds to noon ($= 63^{\circ}$); lots of fog with
wires & stratus. 12:58 66° sunny with
streamers of strato-cumulus. 1:07
1 Manarch w to E, high over house.
6:28 Fog in, 67° no wind.

23 Sept Fog clearing 10:45 $= 63^{\circ}$ 3 pm
clear, 69°

24 Sept 12:10 clear a.m. 68°

25 Sept 8 am clear 57° ; 9:37 64° calm

12:35 1 Manarch up & over cab to SE.

12:40 - 730 calm.

26 Sept 9:48 am clear, E. wind 75° ^{strong} $\frac{\text{Hot}}{\text{all}}$

10:20 2 Manarchs over house. 6:30 $= 80^{\circ}$ day

27 Sept clear & Hot all day.

28 Sept 7 low fog clearing 8:30; 9:16
 59° and 1 Manarch over house.

9:52 1 Manarch to SE. 10:42 - 1 M. to NW

12:36 1 Man. to E. 7 pm 75° cirrus from S

29 Sept. Fog with cumulus (high) above

10:28 59° 10:52 same sun & first
Manarch of day. 12:07 solid overcast
 63° Fog. fogging in canopy of oak.

1:54 clear with few cirrus slight breeze
 67°

30 Sept cloudy, light rain during night

9:22 67° 10:15 same blue to SW, 68° . 3:22
clear, calm & 74° cleared by noon. 5: pm
overcast, 5:35 67°

1 Oct. light sprinkles during night;

overcast 9:30 64° very light drizzle
starts. 10:45 slightly heavier, 61° 12:13 65°
brighter

2 Oct cloudy, mixed; 9:55 61° . 1:24 windy

66° 1/2 clouds & 1 Manarch to E.

[illegible][illegible]

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Wristman
1992

Journal

291

2 Sept, del Norte St., Berkeley, Alameda Co, CA

3pm - 67° just about clear. Fox Sq.

Forecasting in aab 4:03 - 79° in sun, windy

5:30 + overcast (Fog?)

3 Oct clear, dew; 10:45 - 64° 2 Fox Sq in
aab - nest:

4 Oct clear & hot to SF

5 Oct clear; 10:31 - 64° calm.

2:16 - 77° in shade, 1 Monarch sailed
over aab to N

6 Oct. clear, 9:20 - 63° 4:11 in sun - 107°!

6:16 clear, 8P sun low. Little activity

7 Oct clear HOT ALL DAY sunset 6:40. 77°

9 Oct 9:47 am clear, 63° Monarch over
house to E.

10 Oct clear; 2:35 - 95°.

Last aab HOT! clear in a.m.

11 Oct low fog which lifted off by

9 am; 9:38 - 57° warm pm

13 Oct Fog 10:18 few small holes 60°

10:24 1 Monarch to SE

14 Oct overcast 9:58 am 58° 3 - clear
with cirrus, 64°

15 Oct 9:28 am Fog, 57° more in; they
are flying down to bushes in del Norte
court - feeding. This is first winter
behavior. ~~to~~ = waving first
dell sun at 10:45. 1:42 hazy clear with

thin cirrus, slight breeze, 65° 3:15 -

65° complete high cirrus, diffuse sun.

6 Shatus dull sun, 59°.

16 Oct clear, bits of fog at 8; at 9:15 a few
cirrus & 56°. 3:24 1 Monarch over H

to NW - 69° clear & calm.

17 Oct clear with cirrus, 11:55 - 63°

Handwritten text, likely a letter or document, written in a cursive script. The text is heavily faded and illegible due to the quality of the scan. It appears to be a single page of writing, possibly a letter, given the structure and flow of the lines. The ink is dark, but the paper is aged and the overall image is very blurry.

Christman
1992

Journal

292

17 Oct, Beckley, Nevada, Cal

1:19 male cirrus; 70° in shade & 1

Monarch to E. 3:12 now almost
solid. Thatus 69°

18 Oct. Sunday busy all day; Fog to 12:30
then 1/2 to + with clouds 6:30 & clear

19 Oct Fog, 9:30-600; 11:16-67° 1 small
hole in fog. a Monarch day at 11 am

11:16 1 finish in top of NW elm - very
quiet. 1:20 clear, slight breeze, 68° 4:17

clear, bright 78° ^{low} bank of fog - S to NW.

20 Oct Fog, 9:56-64° few big pieces of
blue - 2 jays are only birds activity
for an hour! 10:23 more fog - 1 Monarch
from N down over sub. 2:36 sun & more
clouds, 75°. 10:16 brief heavy shower (2)

21 Oct scattered cumulus, 9:05 59°
12:07 - 74° fewer clouds.

22 Oct. 7:30-50°, 9:54-57° Clear,
sprinkling no wind. 10:49 1 Monarch
over house.

23 Oct 9:31 clear, calm, 57° 2:30-79°

24 Oct clear at 8:30 & 57° I. Then Thatus
for SE; a general overcast at 1 & 76°
3:51 - few clouds, hazy clear, 79°.

25 OCT cool & fog all day STANDARD T.

26 OCT 9:05 - 64° cirrus & thatus, sun,
3 pm clear warm, few cirrus & cumulus, 84°

27 Oct overcast, 2:54 hazy clear, 62°

1:16, 64° (cool) was clear to 12:30 now
increasing low patchy fog.

28 Oct cloudy 9:41 - 57° cool, calm.

1:01 very light sprinkle begins, 57°

29 Oct rain during night. 10:59 - 55° rain
continues light to occ. heavy, occ wind

[The page contains faint, illegible handwriting throughout.]

Christman
1992

Journal

1993

29 Oct. ~~left at 5:15, but by 11:00 AM~~ rain stopped about noon, still overcast after sunny halos & at 1:15 - 59°

30 Oct. clouds to 10 AM = 61° no rain & only small bits of blue & sun. calm.

31 Oct. hazy clear, then fog. several showers during night = (.18)

61° at 9:24 - 10:37 sun, scattered fog, 63° things are wet.

1 Nov. light rain at Roseville to PA.

2 Nov. scattered fog 12:17 = 67° cirrus.

3 Nov. clear with cirrus, same wind 9:34 = 64° Very little bird activity.

2:28 = 83° almost calm, clear

5 Nov. variable stratus/cirrus, sunny 79° at 12:24

6 Nov. clear; 10:15 62° nice day

7 Nov. 9 AM clear 57° ? 1 Manarch fast NE to SW fast tree level. Few Manarchs thus far this year.

8 Nov. overcast to high thin stratus to 700's. 4:33 = 59° cirrus sunset.

9 Nov. 47° at 7:30; 9:11 = 51° clear night. 3:12 clear - 80° in sun. cold day!

10 Nov. 10:41 - 56° clear with small cirrus cold night.

11 Nov. another cold - clear night.

12 Nov. 46° at 8 AM & 54° at 9:58 clear, few cirrus & occ. breezes.

13 Nov. same

14 Nov. same; more thin cirrus.

16 Nov. 40° at 8:10 clear; then some cirrus/stratus. 10:34 = 55° 1:30 - 60° has been pretty clear, now clouds moving in to W & fog ahead.

Handwritten text in Devanagari script, appearing to be a letter or document. The text is written on lined paper and is mostly illegible due to extreme blurring. A small, faint circular mark is visible on the left side of the page.

Christman
1992

Journal

294

17 Nov, ~~all white st. Berkeley, Berkeley~~ ^{clearing 6:54}
clouds to 9:30 +, clearing 12:05. 59°

19 Nov. light rain at 7:30 + & 50° ±
9:54 - 53° rain lighter. it continued
to 11:30 = (.25") 1:21 - 59° solid
cloud cover & no rain.

20 Nov 9:53 = 48° sparkling clear with
occ. breezes.

21 Nov. 10:11 - 53° cirrus & rippling stratus
calm 4:13 calm overcast, - 54°

22 Nov. rain during night. 9:45 - 51°
with scattered sun & large cloud
masses, calm. RAINFALL at 10 am = (.10")

23 Nov clear, calm 42° at 8; 50° at 10:12
10:45 cirrus cover coming in from SW

24 Nov. overcast, windy at 9:44 = 47°
12:43 = 54° calm house cold.

25 Nov overcast, cold & windy. 9:40 = 51°F
with few blue halos; cirrus & fluffy stratus.

28 Nov 9: am clear, 49°; 11:39 - 57° calm
4:12 hazy have seen few cirrus - 60°

30 Nov 49° at 9:45 high thin cirrus.

1 Dec high clouds all day variable.

2 Dec light rain started at dawn.

9:33 = 47° 11:10 rain has stopped & some
pale blue to SW. - 49° 3 pm = 48°, 1/2 hr of
a heavier than normal rain.

RAINFALL = .45" at 4 pm

3:19 sun & broken clouds. 6:18 - 49° all temps
are outside. also 3 strokes of lightning

far to SW no thunder. (MORE RAIN = .40)

3 Dec clear, cold (45°) & wind at 8:30; fog
over hills. 10:15 - 50°, wind, fog (?) overhead
tho broken. 2:34 clear, occ. breezes, 62°

4:48 clear, calm, 51° sun is down.

Handwritten text, likely a letter or document, written in a cursive script. The text is heavily faded and illegible. A circled word, possibly "and", is visible in the upper middle section.

Christman
1992

Journal

298

5 Dec

off & an ill formed cirrulus 45°-60°
at 2 pm.

6 Dec Rain started at 10 pm last night
at 9 am today (= .43") 10:26 no rain
overcast, a bit of sun. at 4:30 = (.41")
heavy rain in afternoon.

7 Dec. rain during night. overcast acc.
cirrulus, 45° at 9:33 am. since late
yesterday (.61") 3:22 - 51° lig cirrulus

8 Dec overcast, occ. wind, 9:34: 50° from
rain starts - light, & 50°. 3:28 steady
rain - 51° everything soaked outside

9 Dec rain all night {RAINFALL = 1.71"}
9:38 - 56° overcast, no rain night now.

11:10 light rain again. 2:53 occ. light
sprinkles, 59° then occ. sun, 3:21 opening
to SW 3:44 moderate rain. rain all
night.

10 Dec. overcast sprinkles {RAIN = .72}

1:41 a driving heavy rain - wind - this
was brief. Then light rain.

11 Dec rain during night stopped by Tan
at 10. (= .60" RAIN) then sun scattered
clouds. 3:04 almost clear, 57° at 1 ± a
quick violent down pour, a 100 yds
wide! (on Galano ave)

12 Dec bright, clear, wet & 39° at 8 am, 44° at
10 am.

14 Dec clear cold 50° at 10. 4:19 wispy

cirrus, 57° a quiet day - cool at that.

15 Dec clear all day: 3:56 - 57° clouds to SW - W
massive on top - approaching.

16 Dec clear & some filmy cirrus, 9:45 - 44°
2:17 haze, 54°

[The page contains faint, illegible handwriting, likely bleed-through from the reverse side.]

Christmas
1992-93

Journal

296

17 Dec.

showers during night & 9:20-9:40 =

(.28) 1:07 - 47° light shower. 2:40
clearing after shower; earlier; clouds
from N, 49°. 3:26 99% clear; 51° breezy.

18 Dec clear, calm, 39° at 9:29 am.

19 Dec clear, calm 43° at 10:40

21 Dec yesterday & today - overcast
- cool. 10 am = 49° calm. by noon
nearly clear. 1:20 of a high cloud, 53°
1:46 now overcast, occ. wind. 3:39
clear again, 57°.

22 Dec clear, heavy dew, calm. 1:26
48° 3:24 clear, 65°. amazingly quiet day

23 Dec wind during night & into
am 10:57 - 53° clear.

24 Dec clear, calm & cold - 38°
at 8 am. clear.

26 Dec overcast all day, cool. Back
from Palo Alto!

27 Dec overcast all day.

28 Dec rain by 3 a.m. light rain
all day, several heavy showers.

29 Dec clear - scattered cumulus at 8
overcast & wind at 10:44. 12:30 brief
hale storm.

30 Dec clear, clouds on horizon
11:30 - 47°

31 Dec overcast, first sprinkles 9:30 - Ended
3:20 heavier drizzle overcast, 54° some
wind.

1 Jan 93 rain off & on (1.49")

2 Jan clear & 40° at 8; by 9 spotty
fog. 4:30 - 45° hazy clear, thin cirrus clouds

4 Jan as yesterday 34° at 8 am clear. to
w

1. The first part of the paper is devoted to a general survey of the situation in the country. It is a very interesting and valuable contribution to the knowledge of the country and its people. The author has done a great deal of research and has gathered a wealth of material. The paper is well written and is a pleasure to read. It is a very good example of the kind of work that should be done in the study of the country and its people. The author has done a great deal of research and has gathered a wealth of material. The paper is well written and is a pleasure to read. It is a very good example of the kind of work that should be done in the study of the country and its people.

Christman
1993

Journal

297

5 Jan.

43° at 9:48, overcast

6 Jan light rain & lots of wind
during night at 9 am = .27"
cold 11:45 - 41° min all day -

7 Jan broken overcast, 53° at 9:50
RAINFALL = 1.45" 11:15 sprinkles
start.

8 Jan overcast, 48° at 10 am.
RAINFALL = .530 at 11 am.

9 Jan. scattered clouds & sun & showers
10 am - 49° RAINF = .10" broken
shys all afternoon no rain since 9 am

10 Jan. clear, 38° at 8:30 am calm
clouds, including thunderheads
to W & NW. Won to 2:12 clouds, then to
2:24 heavy shower; broken clouds
12 Jan dull overcast, 9:28 - 39° by noon
mist, heavy rain & cold - continued
thru night

13 Jan lightish steady rain, not as
cold 9:13 - 52° RAINFALL at 11:30 = 3.48
off & on showers all afternoon, some
torrential, 6 pm - 54° almost boiling!

14 Jan scattered cumuli am, clear after
noon, 55° RAINFALL - 1.18" since
yesterday

16 Jan clear, 48° at 9; 10:50 thin cirrus
no rain RAINFALL 1.11"

17 Jan rain off & on night to night

18 Jan light sprinkles, 9:35 am: 47°
RAINFALL at 9:45 = .28"

19 Jan overcast, cool all day. 3:27 - 53°

20 Jan a moderate, drenching rain since
5 pm yesterday. 10:09 - 52° heavy rain pm

Handwritten notes, likely bleed-through from the reverse side of the page. The text is mirrored and includes phrases such as:

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Christman
1993

Journal

298

21 Jan.

overcast, 10:42 - 5:30 RAINFALL - .38"
since last.

[

22 Jan. clear with ripply cirrus 10:17 -
480

23 Jan clear same cirrus 11:13 - 496

24 Jan clear with thin cirrus. 12:52 - 530

25 Jan clear, cool, 10:16 - 500

26 Jan clear, 9:40 - 470

27 Jan. clear (rolling stratus to SE
early. 400 at 8 am

28 Jan hazy clear, 460 at 10:07 am.

29 Jan clouds strato cumulus in am. pm
clear, calm in pm. wind started 3:30

30 Jan. wind all night; clear, 10 am
= 540 wind stopped about noon

31 Jan clear 10:23 - 550 calm 5:29

clouds - stringy cirrus from W; = 530

1 Feb. clear, clouds to W. 8:30 - 420; 9:42 - 480
calm. 11:05 filmy cirrus to W, almost

overhead. 12:23 complete cirrus overcast
with no shadows. 2:33 2 Fox Sg. thru NW

elgn to my covered pole across St.
Last year a nest was built there.

2:52 - 650 sunny almost clear; calm

2 Feb. clear with thin cirrus. 11:54 - 570
with approaching bank of clouds. 4:03 - 560
complete stratus cover, calm; no activity

3 Feb overcast, 10:14 - 550 high holes in
overcast sky, cool. Wind & clouds all night

4 Feb fairly clear after 8 am 10:10 - 550
few high cirrus up to 1:50 sun & wispy clouds
now solid dull overcast.

5 Feb rain 12 to 3 am none since, 10:11 - 570

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5 Feb

rain gauge fell out - no measurement
so T (probably $.15 \pm$) Sun & scattered
clouds all after noon. 5:31 - 58° overcast

6 Feb. variable cirrus-stratus, some sun,
10:29. 57° 2:19 uniform overcast 66° F

7 Feb overcast, no rain to Palo Alto at 8 am

8 Feb rain all night in P.A. back by
12:30 rain most of way up. RAINFALL
here at 3 pm = $.77''$ still overcast
& breezy at 3:30. 5:31 no rain, 55° overcast.

9 Feb same time about dawn the loud
honking of geese, low = Canada Geese
rain during night RAINFALL = $.14 \pm''$
am = scattered cumuli. 10:30 light rain.

10 Feb scattered clouds, 9:35 - 50° ,

RAINFALL after yesterday = $.29''$

11:08 dull sun, almost complete overcast.

5 pm - light rain starts. 6:14 - 49°

light rain at night RAINFALL $.12''$

11 Feb clear at 8 pm. 11 am cirrus &
stray stratus - 53°

12 Feb clear early Misc cumuli, etc. since

13 Feb Saturday clear, cool most of day.

14 Feb 9 am clear, calm, 45° Beautiful
day! into 70's outside 5:30. 54°

15 Feb overcast (? fog from SW) then
scattered clouds, clear & breezy by 11:30
- 54°

16 Feb cloudy, 9:46 - 49° calm, light rain
at 3:24, stopped, again at 5:30

17 Feb rain all night, 9:38 - 47° occ.

breezes light rain in a.m. moderate
rain all day, cold (54° at 5:30) $\frac{1}{2}''$ RAIN \pm

18 Feb lite RAIN $.48''$ to 10 am over night 10:49
am

1. The first part of the paper is devoted to a general description of the country and its resources. It is a very interesting and valuable contribution to the knowledge of the region.

18 Feb

rain (lite) off & on, 10 min. sun!
afternoon scattered clouds. 10 pm 10 min
heavy rain & + flashes of lightning
& 2 thunders 8 sec & 10 sec.

19 Feb rain during night, esp 3:40
with 1 lightning RAINFALL - .69

at 9 am - 52° overcast, dark. at 10:
30 am, 5 min. + wind & rain, then a
sun out, decreasing clouds to 3 pm
then darker, strong wind & driving
wind.

20 Feb 3:04 scattered cumulus & wind
all day - now 58° 1 pm was 52°
RAIN since yesterday - .40" (none today)

3:28 sprinkles start. 3:49 sun out, now
long streaks of cirrus

21 Feb Rain overnight =

scattered clouds, 10:42 am overcast calm &
55°. 12:30 very lite rain some blue sky.

22 Feb overcast, light sprinkle. 10:00 =
49°. 10:50 consistent light rain, all is
wet again.

23 Feb at 8:30 1/2 sky clear, by 9 light rain

9:57 steady medium rain, 48° 10:01

heavier rain, lightning WSW, 7 sec. thunder.

11:12 patch of blue to W, dull sun, no rain.

RAINFALL =

24 Feb mostly clear, few cirrus, 9 =
40°; 11:13 - 46°.

25 Feb scattered clouds & overcast
all day. light rain 5:30 RAINFALL =

26 Feb light rain stopped at 7:30 -
RAINFALL .10" 42 at 8 am.

27 Feb clear, calm 42° at 8:30; 10:42 - 50°

27 Feb.

5:28 clear, calm, 55°

28 Feb. clear all day

1 Mar 48° at 8:30 with scattered fluffy clouds (? fog) clearing 9:30 (58°)
12:04 hazy sun, high cirrus; 55°
Davies tree service cut away from pole across St (my electricity). 6:06 scattered stratus, 52°

2 Mar high cirrus 10 am - 50° ^{sun} clear

3 Mar rain (T) during night. cloudy am. 5:10 at 8:30, 10:32. 56° noon -

leaving fluffy clouds, 58° Yesterday
Davies tree service (under igloo of city of Berb.) trimmed away from the power pole across street - 50 goes 1 sq. west. after a on & off cloudy day - 6:14 clear, calm, 57° little activity

4 Mar few cirrus/clear 11:30. 56° The shade is cool, sun is warm! 4:37 dull sun, hazy clear, some cirrus, 67° outside

5 Mar clear beautiful day - 1:23 - 65° outside
5:54 - 61° calm clear. quiet day

6 Mar clear 9:36 am - 60°. 6 pm clear calm, 67° at sunset. acc. breezes. Nice!

7 Mar 9:40 - 59° hazy clear, calm. quiet.

8 Mar Fog to 9:30, then hazy clear with few cirrus. Fog horns last night 2 of them
9:42. 54°

9 Mar overcast (no fog horns at night) 9:10
few holes of blue, 9:30 filtered sun more blue & 56°

10 Mar dull overcast, 10:37 - 58° 1:06 hazy fog, cirrus & sun, 64° 3:51 fog in 90%, but sun, 65°

Page 10

The first thing I noticed when I stepped
out of the car was the cold air.
It felt like a giant hand reaching out to
greet me. The snow was falling softly,
covering everything in a white blanket.
I took a deep breath, feeling the coolness
in my lungs. The world around me was
quiet, except for the occasional crunch of
snow underfoot. It was a beautiful sight,
like a dream come true. I had heard so
much about winter in New York City, and
now I was experiencing it all firsthand.

The End

11 Mar.

fog at 8:30 clear by 10. - 57°

12 Mar. clear in am then bank of stratus to w. by noon. afternoon dull overcast & no sun. 3:22 - 72°! outside, cooling.

13 Mar. increasing clouds all day from cirrus to 6 (50) of low stratus.

14 Mar. light rain overnight = (T)

10:46 - 60° sun, fluffy cumulus.

5:30 complete overcast after sun - p.m.

15 Mar. variable clouds all day

16 Mar. overcast 1:42 - 62° very light sprinkle started. By 4 a respectable RAIN

17 Mar. rain stopped ± 5 am ± 1.00 RAIN

scattered clouds, 9:30 58° 12:40 lite

RAIN & 63° first rain since laylite

1:23 shame. Strange only towhees

in today - no finches or even chickadees

1:40 same blue holes & bright diffuse

lite.

18 Mar. RAIN during night =

light am. beautiful fluffy cumuli

10:20 - 59°

19 Mar. overcast all day, cool

20 Mar. clear, 9:45 - 55° 2:26 - 67° with

hazy sun - lots of high feathering cirrus.

21 Mar. Fog; clearing & sun at 11:30 -

62° cirrus in pm. 6:22 - 58°

22 Mar. fog, clear by 9 am - 54° 6:02 huge

scans of cirrus S to N, off to w. = 59°

23 Mar. light rain in a.m. - started ± 5:30.

9 am = 57° light R all day - most of night

24 Mar. clear, fluffy cumuli RAIN = 62°

9:14 - 51° cirrus overcast started at

2 pm. at 3:45 - 62° 6:02 a few stratus.

11 May 11
 12 May 11
 13 May 11
 14 May 11
 15 May 11
 16 May 11
 17 May 11
 18 May 11
 19 May 11
 20 May 11
 21 May 11
 22 May 11
 23 May 11
 24 May 11
 25 May 11
 26 May 11
 27 May 11
 28 May 11
 29 May 11
 30 May 11
 31 May 11

Christman
1993

Journal

303

25 Mar.

nearly clear early, 10:25 cumulus
from S, first spottily now darker & great-
er cover, no sun & 56°. 3:36 an in-
consistent overcast of high stratus.
at 2 pm same huge cumuli dark,
etc. no rain now - 55°, occ gusts of
wind - a rather slow day - reading
"Ravenous Winter" for 2nd time.

5:15 light rain =

26 Mar. variable clouds, sunny, 12:13
= 57° (RAIN last night = .22)

1:30 lots of clouds & very light sprinkle
it stopped 2:1; scattered stratus at
5:45 = 53°

27 Mar. dull overcast no rain; 8 am
50°; 10:35 - 58° occ wind. 12:03 a
light rain started at 11:45 - street now
wet. Rain stopped about 2 pm & dried for
while. Overcast & 48° at 3:53
RAIN = .40"

28 Mar. variable clouds 12:50. 57°
almost clear, a few small cumuli.

5:44 clear, windy, 58° fog? to W.

29 Mar. fog, 10 am - 55° calm, occ. sun.

30 Mar. hazy clear, 10:11 - 57°

31 Mar. clouds, mixed all day. 63° at
3:16 with acc. wind. light RAIN by 5:30
1 apr. light rain at 7 am. broken clouds
after 8 am. (RAIN at noon = .41")

brief shower 10:20. almost clear at 5:37

2 apr. sunny in am increasing dull thin
overcast 3:37 - 68°

5 apr. hazy from E also alto windy clear
afternoon - no birds. 5:46 - 61°, clear wind

Christenon
1993

Journal

304

6 Apr

pretty clear all day, cool house
tho 79° outside in sun at 4:15 -
a bank of stratus an entire horiz.
at noon, a number of thunderheads
NW & E. 4:15 approaching (?) bank of
stratus to W. breezes.

7 Apr clear - warm all day (house cool)
5:53 - 67° calm. First Real Spring day!

8 Apr first fog, then stratus & cirrus with
hazy sun. 12:39 - 65°. 3:53 - 63° clouds
were lowering & a bit dark - then that
flat overcast that usually means
rain - 4:21 driving light rain! 3:38
now a respectable rain! [RAIN = .03"]

9 Apr. Misc clouds 49° at 8:30

10 Apr a brief shower of RAIN (= T)
at 5:18 am. clear at 8 am by 11:24 - 57°
cumulus or fog - house cold! Misc
clouds tho mainly sunny. 6:53 - 58° in
sun. Waspert clouds to SW, breezy.

11 Apr 52° at 9:58 am clear, almost calm

2:54 hazy sun due to filmy cirrus

5:20 hazy clear, 75° in sun breezy.

12 Apr 10:05 - 56° clear with feathery
cirrus, calm.

13 Apr 9:58 am - 54° variable thin cirrus over-
cast, dull sun.

15 Apr mixture of broken clouds - a
rain stain broke apart last night
slight breeze at 10:30 - 57°. 3:41 now
windy, hazy overcast (after several
hours of almost clear) - 72° in sun.

16 Apr overcast 11 am - 58° 4:31 - 70° as always
in sun. Mostly clear. Waspert clouds to W.

1. The first thing I noticed when I stepped out of the car was the cold. It was a sharp contrast to the warm blanket I had been sitting under. I shivered slightly, but then I remembered that this was the first day of the new year. I took a deep breath and smiled.

Christman
1993

Journal

305

17 Apr.

Rain 3' in am. light draps since some
bustery wind, overcast 10:36 - 57°

Heavy rain 1 - 2 pm = total .41 then
almost clear to dark overcast at 5:44^{60°}

18 Apr. clear with cumuli all day. 84° at 3:46

5:52 clear, light breeze, 67°

19 Apr. scattered misc clouds all day 6 pm -
- 72° thin hazy sky.

22 Apr. some clouds, consistently sun
with variable clouds, rain in pm. Today
windy with feeble cumuli. 3:50 hazy
clear, 76° in sun, breezy.

23 Apr. overcast all day with 2 breaks - 10 &
2. after 5 o'clock 5:54 light drizzle -
continued to (10 pm ± = .19)

24 Apr. clear then fog like chunks
of cumulus from N. 9 am - 55°

Clear midday. 3:47 hazy cirrus, 75°

25 Apr. overcast all day 2:03 - 67°; with
few sprinkles (dets) at 1 pm, brief dull
sun.

27 Apr. clear, calm 59° at 11:17 am.

29 Apr. clear hot - 95° in sun at 4:30^{calm}

30 Apr. clear calm 63° at 10:10 am 6:40
in sun - 89° getting hazy, calm.

1 May clear but increasing cirrus -
at 4:15 almost complete high hazy
sky, no shadows & 77° a hot day.
6:20 bright sun, thicker but N-S bands of almost
stratus; 84° in sun now. Quiet day.

2 May same

3 May overcast, light rain at 10 am - 55°
.10" RAIN to ± 2 pm rest passing.
cumuli, 6:09 = 59°

1. The first part of the paper is devoted to a general discussion of the problem. It is shown that the problem is of great importance and that it has not been completely solved. The author then proceeds to a detailed analysis of the problem, showing that it is a special case of a more general problem. The author then discusses the various methods that have been used to solve the problem, and shows that the method proposed in this paper is the most efficient.

2. The second part of the paper is devoted to a detailed analysis of the problem. It is shown that the problem is of great importance and that it has not been completely solved. The author then proceeds to a detailed analysis of the problem, showing that it is a special case of a more general problem. The author then discusses the various methods that have been used to solve the problem, and shows that the method proposed in this paper is the most efficient.

3. The third part of the paper is devoted to a detailed analysis of the problem. It is shown that the problem is of great importance and that it has not been completely solved. The author then proceeds to a detailed analysis of the problem, showing that it is a special case of a more general problem. The author then discusses the various methods that have been used to solve the problem, and shows that the method proposed in this paper is the most efficient.

4. The fourth part of the paper is devoted to a detailed analysis of the problem. It is shown that the problem is of great importance and that it has not been completely solved. The author then proceeds to a detailed analysis of the problem, showing that it is a special case of a more general problem. The author then discusses the various methods that have been used to solve the problem, and shows that the method proposed in this paper is the most efficient.

5. The fifth part of the paper is devoted to a detailed analysis of the problem. It is shown that the problem is of great importance and that it has not been completely solved. The author then proceeds to a detailed analysis of the problem, showing that it is a special case of a more general problem. The author then discusses the various methods that have been used to solve the problem, and shows that the method proposed in this paper is the most efficient.

4 May

~~clear~~ clear all day some breezes, 4:27-75°

5 May hazy clear, high dull cirrus, 3:06
general haze, 69°

6 May overcast 10:11-58° - clouds to
± 3 then clear, 5:27-79° slight breeze

10 May returned from Mendocino
hot windy!

11 May heavy scattered clouds all day

12 May clear with towering cumuli
over entire Wharrior S to N; occ.

breezes, 9:47-53° small cumuli
over hills just before 5 wind

16 May has been mainly clear & warm
these days. 7:23-67° and first, it
appears, fog intrusion.

17 May 8:58-57° fog. 6:27-65° sun
with stratus to NW.

19 May scattered stratus (few holes)
all a.m. - 9:58-69°

22 May clear all day 3:04-74°

23 May Fog to 12:30, then ± clear. 5:42-79°
hazy clear. few high cirrus, breezes.

24 May overcast, light sprinkles at 7
am - light rain by 8; 8:19-57°. A squall
at 1:30 and again at 3:47 - it's just like
a winter storm! (6 pm = .50 RAINFALL

25 May clouds all day no rain

26 May brief showers at 6 am. Clouds
in clearing 9:04-66° getting windy.
after 12:30 to 4± rather consistent heavy RAIN

27 May clouds all day, few brief showers
after 5:30 clear! 6-76° T of rain

28 May Wise cumulus, 10:40-62

30 May to Palo Alto - clouds all day.

Handwritten text, likely bleed-through from the reverse side of the page. The text is mirrored and mostly illegible due to the quality of the scan and the nature of the bleed-through. Some words are faintly visible, such as "LIATIAS" in the lower middle section.

Christman
1993

Journal

307

30 May

light rain after dark.

31 May back home by noon

(RAINFALL (48) = .38")

3 June cumuli every day since
7:50 Today dull overcast of high
cirrus. 5 pm sprinkles started

4 June dry, overcast - 3 Fox Sq.

after 10:13 off & on showers - some
rather strong (5:30 RAINFALL = .31")

18 June: This week clear & HOT.

Trapped a 7" body juv. passum
near entry to house - to J. Noble
Park. 2:53 shade 77°; 3:29 in sun - 101°
was out - a nice sea breeze.

19 June clear, 11:56 - 69° 6:20 Fog low
to us (cool air - breeze) 79° was better
fog came: soon.

20 June Fog cleared by 11:30; 4:35 -
87° fog haze

26 June last 3 days Hot - in 90's This
a.m. Fog to W at 6:15. 6:30 at 11 am clear
caught 4th juv. passum & to JH Park
(neighbor said there were 4 - &
caught 4. Have not heard any in
this, etc recently!

28 June another clear day not as hot,
89° at 7:17 pm in full sun. The N.
neighbor thinned Pittos to NW and
cut down the pittos between houses.
Will this solve my passum - Rattus
(?) problems?

3 July Fog at 6 am gone by 7. Have not seen
Fox Sq. since last weekend.

Handwritten text, likely bleed-through from the reverse side of the page. The text is mirrored and mostly illegible due to the quality of the scan and the nature of the bleed-through. Some words like "THE" and "AND" are faintly visible.

Chris Traver
1993

Journal

308

5 July

Fog at 7, clearing 8. Fog in small chunks
1 to then solid for first time in ages.
6:31-590 (early a.m. for 50. landing took

6 July fog very low at 2 am. sacked in
at 11:20, 63°F. caught another opusson
(larger than others) to J.H. Park. also
a Fat 50. in Pittos can't find a way
to the line! I had their "handles"
cut off. 3:41 a few whiffs of fog, breeze
& 870

9 July fog every a.m. breaks in p.m.
11:07-590. in sun

10 July fog to 1 \pm then clear; 6:02-81°

18 July 6:37 pm fog coming in for the 1st
time in week +. 770. in sun

19 July fog to 10:30 am, clear. 6:28-81°

20 July fog till 9 + slow clearing 5:47-83
clear off & on breezes.

21 July same light fog to 7:30, then a few
cirrus by 4:41 (=79°) haze & cirrus overcast

22 July clear all day with cirrus &
overcast to S & W. 4:29-990

24 July clear to 2 pm patchy fog fog

25 July fog to 1, clear 1 hr then increasing

27 July fog to noon yesterday, fog
all day today 61° at 3:49

28 July fog heavy drizzle in fast puddles
under eves. 12:34-65°

31 July yesterday clear & hot. 4:25

clear hot, -118° in sun! Anne left today

2 Aug clear hot (69° at 9:35 am) yesterday
& today a few chunks of cirrus.

3/4 Aug fog clear by noon

10 Aug spotty fog to 5 pm, wind & 790. We've been
fog cover
and +

July 3

Left at 8:00 AM for the
mountain. The road was
very good. We passed
many beautiful views.
The weather was very
pleasant. We arrived at
the mountain at 1:00 PM.
The mountain was very
beautiful. We had a
very good trip.

We had a very good trip.
The mountain was very
beautiful. We had a
very good trip. The
mountain was very
beautiful. We had a
very good trip.

We had a very good trip.
The mountain was very
beautiful. We had a
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mountain was very
beautiful. We had a
very good trip.

We had a very good trip.
The mountain was very
beautiful. We had a
very good trip. The
mountain was very
beautiful. We had a
very good trip.

17 Aug

yesterday hot, today cirrus all day. 3:36
= 79° Must be a hawk about - no
bird activity!

27 Aug 6:05 pm 98° cooler now! It's been
clear for a week +, an HOT.

28 Aug 12:17, 64° in shade clear;
one Monarch over house to NW.

8 Sept 9:47 am clear 1 Monarch from
NW over house low. Have had a
week of fog (clear only 1-4 pm) yester-
day fog in early a.m. warm day.

21 Sept clear after fog 11:10 am 1 Monarch
low NW over house to SE. 12:39 pm
58° in shade 1 Monarch to SE over

oak & house, this 'high'. 3:42 Mother
Monarch high over house NW to SE

24 Sept 1 Mon. to NW

25 Sept 9:44 am clear, 1 Mon. over
house to NW. 11:27 same. 2:46 pm
1 Mon. low over house to SE.

27 Sept: clear with high feathery cirrus
9:21 1 Monarch from NW low over
house.

30 Sept 10:45 am clear 1 Mon. to SE. 10:52
1 Mon. sailing over oak to N. 11:53 1 Mon
over oak to W.

2 Oct 1:37 clear after a.m. fog. 1 Mon
from WNW over house.

4 Oct Thunder/lightning for $\pm 1/2$ hr after
3 am. almost all over 15 sec after flash
— 1 or 7 sec. after brief splattering of
big drops of rain. Then overcast to
1 pm then broken clouds. 62° at 1:40

Crishman
1993

Journal

310

7 Oct

Fog to 12:30 then all clear. 5:49 clear
& 6:30 the change of weather, it is here.

8 Oct clear, 10:33 1 Monarch over house
& down by oak to W.

9 Oct. *Leucostriatus* & a big sp. in the

11 Oct has been cloudy mostly with
a few brief bits of sun. Same day as
this am & a break in clouds at noon.
1:14 overcast - 1 Monarch to W. over
house. 67°

12 Oct rather low fog, heavy dew; 10:58 -

61° dull sun out - 11:10 am. 6:58 - 64° in W.

13 Oct 11:19 overcast, 65° 1 Monarch
over house landed in top of oak, wing
back, resting.

14 Oct brief & heavy showers during
night. Clouds in a.m. bit of sun. 9:47

1 Monarch to SE over oak. RAINF = .33

15 Oct clouds & a few sprinkles, RAIN
FALL overnight = .32) clearing

16 Oct clear all day.

17 Oct clear all day, 3:17 = 73° 1 Monarch
to NE over oak. Lots of dew drops lay out.

20 Oct. clear 10:46 am 1 Monarch first
over house, down to NW. 10:59 another
Mon. to NW over oak

26 Oct 2:44 clear 75°+ in shade of low trees

1 Monarch over oak to NW.

27 Oct 10:57 am a few high wisps, 74° with
strong NE winds; 1 Monarch over oak
to N.

29 Oct 9:38 am clear 1 Monarch NE over
house, 10:38 1 Mon. over oak to NW

Handwritten text, likely a letter or document, written in a cursive script. The text is mirrored across the page, suggesting it was written on lined paper and then scanned or photographed. The handwriting is dense and fills most of the page.

Christman
1993

Journal

311

1 Nov

circus to 3 pm; clear & 85° at 4 pm heavy.
deed dip last night off roof-puddles.

3 Nov clear, 11:07 1 Manach: sailed to SW
over arb.

5 Nov. 10:01 am clear, cool. 1 Manach
NE to W. high to dawn across st.

8 Nov clear with a few cirrus am. then
by 3 stratus overcast 3:25 - 61° now wind
Naw half ± of 51st flowers out in
middle sections of branches - no humming
birds today. 3:30 just like a foggy day.

9 Nov. a dull overcast of stratus, etc.
all day. Few jays, but lots of Dickies
etc cool in mid-50s. storm approaching

10 Nov. lite rain about 4 am, stopped by
6:30; overcast to 10:53 when a bit of sun.
little bird activity. Rain - moderate at
2 pm. 3:58 there was a 1/2 hr respite then
a good rain (to wash my dusty Honda)
This will be a good soaking we need.

(RAINFALL = .25" ±) rain at night

11 Nov. clear cool. 12:50 a few small
ill formed cumuli. 1 Manach high to E.

13 Nov. clear, cold

14 Nov. 3:40 am wake up hearing GEESE
calling. Windy 10 am 54° wind clear

15 Nov. 9:17 clear 52°

16 Nov. clear at 7 am.; cirrus by 11; overcast
at 2:30.

17 Nov. dull overcast all am - 57° same pm

18 Nov. clear cool (53° at 9:45) occ. breezes.

19 Nov. 9:52 am, 54° clear windy.

20 Nov. am progressive overcast of high
thin cirrus, 11:05 - 59° same all day, lite rain 3 pm.

Christman
1993

Journal

312

22 Nov

clearing cool, 9:16 - 51° RAINFALL - .10" last night

24 Nov clear, 47° at 10:38 am

26 Nov has some fog till 17:30 was clear, by 4 pm uniform dull overcast no shadows, bit of a breeze, 57°

27 Nov light rain & wind & strong at times (blow 2 panels off greenhouse) in significant rain

28 Nov rain in early am & all day

RAINFALL = .53 at 2:30 pm. Thunder!

29 Nov light rain, breezy. 3:54 after a lull of rain about 2 pm now rather heavy rain with T & lightning in distance.

4:04 heavy down pour. Lightning - T sec. & rolling loud T. It's almost dark with planes going over. 4:12 L = 4 sec.

a long rolling Thunder (10 sec). Can only see 100 yds in heavy rain!

7:30 no rain (RAIN = .11") To 3 pm = RAINFALL = 1.31"

30 Nov clear then thin cirrus

1 Dec thin cirrus in am. then spotty

stratus at 2. By 2:51 almost complete the blotchy overcast - a few drops!

2 Dec Neighbor (L.M.) reports her cat (Gail - Sam) killed a Fox Sq.

2 Dec clear cool. 3:32 - 85° in sun
no Fox Sq. today

3 Dec clear with high cirrus - no overcast.

4 Dec light rain (- .01") about 3 a.m.

clear (after small cumuli early). last

7 Dec overcast 10 am - 1 Fox Sq first since week.

1954

1887

The first part of the paper discusses the importance of maintaining accurate records of all transactions. It emphasizes that without proper record-keeping, it is impossible to determine the true financial position of a business or individual.

In the second section, the author outlines various methods for organizing and storing financial documents. These include creating a systematic filing system, using digital storage solutions, and ensuring that all records are backed up regularly to prevent loss.

The third part of the document focuses on the role of technology in modern accounting. It explores how software applications can streamline data entry, automate calculations, and generate reports more efficiently than traditional manual methods.

Finally, the conclusion reiterates the critical nature of reliable financial information for decision-making. It encourages readers to adopt best practices for record management and stay updated on technological advancements in the field.

[The page contains faint, illegible handwriting.]

The first of these is the fact that the
 system is not a simple one. It is a
 complex one, and it is not a simple
 one. It is a complex one, and it is not
 a simple one. It is a complex one, and
 it is not a simple one. It is a complex
 one, and it is not a simple one. It is a
 complex one, and it is not a simple one.

... ..
... ..
... ..
... ..

8 Dec

started a moderate rain at night
& continues. (rain fall at noon = .36")

9 Dec overcast periods of drizzle to 4 PM
RAINFALL (24+hrs) = .44"

11 Dec. RAIN = .84"

12 Dec. to P.A. misc. clouds, cool

13 Dec. hasb same increasing clouds to

14 Dec. RAINFALL = 1.35" last night. all
day in low 60's. huge cumuli & thunder
- Reads about. Two short showers
1 about noon was heavy. 49° at 4pm

16 Dec clear, increasing high clouds until
at 5 a dull overcast.

17 Dec first almost clear few cirrus &
COLD (low 40's) variable clouds all day

at 4:30 - 45° almost clear, little wind.

21 Dec clear, cold (39° at 11:30, 43° at 12:17)
same yesterday.

23 Dec clear all day 5:27-63° heavy wind by 2.

26 Dec back to Be. b. from Palo Alto at noon
overcast, 3:30 a fine mist falling.

31 Dec. early - stratus overcast, by 10 am a
general layer of fog (1/2 up hills), 11:53: 50°
condensation on building

3 Jan 94. before scattered clouds, no rain
been cool. This am. mix of fog & high
stratus. 1 pm sun scattered high clouds, no
fog.

4 Jan light drizzle all day cool 5:30 pm = .150

5 Jan clear with cirrus, cool, everything
wet. Trace of rain

8 Jan overcast, 9:55 am rain started.
stopped by noon - 51°

10 Jan hazy sun

The first of the month was a fine day. The weather was clear and bright. The sun was shining brightly. The wind was light and fresh. The water was calm and smooth. The sky was blue and clear. The clouds were white and fluffy. The birds were singing and chirping. The flowers were blooming and fragrant. The trees were green and leafy. The grass was green and soft. The ground was dry and warm. The air was clean and fresh. The day was perfect and beautiful. I was very happy and content. I enjoyed every moment of it. I was lucky to have such a good day. I will remember it for a long time. I hope to have many more like it. I will try to make every day as good as this one. I will be happy and content every day. I will love every moment of my life. I will be grateful for everything I have. I will be thankful for every blessing. I will be happy and content every day. I will love every moment of my life. I will be grateful for everything I have. I will be thankful for every blessing.

Christman
1994

Journal

314

14 Jan

dull overcast, high cirrus from SW, 11:17
- 59°

20 Jan most of previous days clear, cool
this a.m. fog, 10:35 - 43° Sisal plant
only about 20 flowers left. most have
fallen. An. numerous plantlets forming
on axils of major side branches -
perhaps 200. 2:34 Wgy sun & first high
whispy cirrus.

21 Jan clear overhead, fog on all edges
with bands of clouds to W going N. 10:18 -
53° (43° at 8 am). Noon - overcast, dull sun.

22 Jan RAINFALL = .53" over night
cloudy all day, coolish.

23 Jan RAINFALL = 1.21" to 10 am rather
heavy rain during night, esp. 3 am ±
sprinkles in a.m. Sun out 10:48 am at 2:15 -
2:30 45-65% sun; huge cumuli some dark
& towering not too well formed. 52°

25 Jan RAINFALL = .78" hard rain 6-8 am
still overcast.

26 Jan clear (some sprinkles over night) with
a few stratus; 11 am cumuli forming & starting
to billow; = 50° RAINFALL = .14" overn. at noon
Noon - dull stratus overcast.

27 Jan clear 9:38 = 45° RAINFALL = .13"
during night.

28 Jan 10:18 am = 45° clear, windy.

1 Feb overcast, dull sun, 9:30 = 49° has
been windy.

2 Feb clear with cirrus to 11 am then dull
overcast - chance of rain - none.

3 Feb broken cirrus, sun.

1992

11. 22. 1941

10

The first part of the book is devoted to a general
 introduction to the subject of the book. The author
 discusses the importance of the subject and the
 scope of the book. He also discusses the method
 of the book and the results of the book.

1. The first part of the document is a letter from the President of the United States to the Congress, dated January 1, 1877. It is a formal communication, and it is written in a very formal and dignified style. The President expresses his pleasure in the opening of the new year and his confidence in the future of the country. He also mentions the recent election of the President and Vice-President, and he expresses his confidence in the new administration.

1. The first part of the document is a letter from the President of the United States to the Congress, dated January 1, 1861. It is a formal communication, and it is written in a very formal and dignified style. The President expresses his regret that he cannot continue to serve the country, and he expresses his confidence in the future of the country.

[illegible]

1914-1915

1. The first part of the paper is devoted to a review of the literature on the topic.

Yours very truly,
Wm. Lloyd Garrison

... ..

Christman
1994

Journal

315

6 Feb

in Palo Alto, light rain 5 am \pm . Drove home in light to moderate rain at 11 \pm continued, 2:10 = 50% a nice rather gentle soaking that we need. At 3:30 pm

(RAINFALL = .94")

7 Feb rain stopped 5 \pm am then scattered clouds 10 am (RAINFALL = .62") Sun

8 Feb rain in am

dawn - clearing, clear by 9 am no wind.

9 Feb clear all day 3:42 = 67°

10 Feb light rain at early am to 9 am. 10:15

- light sprinkles no blue near clouds & sprinkles to 2; then clearing. 3:45 wind after ill formed cumuli, no sun. 5:50

13 Feb last 3 days clear; 12th noon some cirrus & since in 50' S; now 69° in sun

15 Feb 7-11 am was rather heavy cirrus after that solid cloud cover, no shadows. 2:47 = 57° storm coming in tonight plus

16 Feb variable clouds & sun all am.

windy - south. Banks of dark clouds start to move in to W. 3:15 starting to cloud over, breezy. 3:40 more wind, then the W bank of darker clouds is now overhead, 64° 5:48 dark to NW, open spot to SW planes are ahead gave S - rain - wind SFO getting dark & overcast, dark clouds to SW.

17 Feb 9:30 (RAINFALL = .45") rain

started 9 pm & off & on all night but heavy wind occ. Now occ. heavy showers 3:45 since noon 4 or 5 squalls of heavy rain, little sun, some light haze. now getting brighter no sun, everything wet.

1897

1897

1897

1897

1897

1897

1897

1897

Christman
'94

Journal

316

17 Feb

4:23 $\frac{1}{3}$ blue, dark to SW, everything wet,
4:40 Off & on showers, wind. 9:30 pm
1. big clap of thunder - w.?

18 Feb. sun with cumuli, etc. Very dark
to S. No rain. RAINFALL = .65" since
yesterday. At noon 6 pm. afternoon
same magnificent cumuli now dissipated 4:40

19 Feb 10:28 am - 4:40 dull overcast.
Rain since early am. - big cold drops,
mid to medium. At noon = RAINFALL = .27
1:26 same overcast, heavier rain & few
strong gusts. Fittos now out in night
near ground. 4:28 still persistent rain
not as much right now - this has been.
at 6 pm RAINFALL = .48" so total today = .73"

20 Feb rain overnight no thunder.
[RAINFALL overnight .40"] Sunny all am
with few puffy cumuli, same in pm
by 5 pm clear except on horizon. A
huge thunderhead tower at 11 & moved
N by 1 pm.

21 Feb showers in early am & on & off
to near noon, same rather hard. 11:01
nearly clear & decided & horizons. Just 1
brief shower, after another, 3:21 = 66° more to W
5:30 pm $\frac{2}{3}$ clear (RAINFALL = .57)

Total 18 = 21 = 2.47"

24 clear mild all day no wind - previous days same

25 Feb overcast, noon - 55° at 4 pm

26 Feb overcast RAINFALL (overnight) = .15
no rain till 1 very light, 3: - 3:51 respectable
4:15 - 5:30

27 Feb light rain overnight; overcast till
mid afternoon. 5:49 = 95% clear & 55°

1. The first part of the document is a list of names and dates, which appears to be a record of some kind. The names are written in a cursive script, and the dates are in a more formal, printed style. The list is organized into columns, with names in the first column and dates in the second column.

2. The second part of the document is a series of paragraphs of text, written in a cursive script. The text is somewhat difficult to read due to the handwriting, but it appears to be a narrative or a report of some kind. The paragraphs are separated by lines of space, and the text is written in a consistent style throughout.

3. The third part of the document is a list of names and dates, similar to the first part. The names are written in a cursive script, and the dates are in a more formal, printed style. The list is organized into columns, with names in the first column and dates in the second column.

4. The fourth part of the document is a series of paragraphs of text, written in a cursive script. The text is somewhat difficult to read due to the handwriting, but it appears to be a narrative or a report of some kind. The paragraphs are separated by lines of space, and the text is written in a consistent style throughout.

5. The fifth part of the document is a list of names and dates, similar to the first part. The names are written in a cursive script, and the dates are in a more formal, printed style. The list is organized into columns, with names in the first column and dates in the second column.

6. The sixth part of the document is a series of paragraphs of text, written in a cursive script. The text is somewhat difficult to read due to the handwriting, but it appears to be a narrative or a report of some kind. The paragraphs are separated by lines of space, and the text is written in a consistent style throughout.

7. The seventh part of the document is a list of names and dates, similar to the first part. The names are written in a cursive script, and the dates are in a more formal, printed style. The list is organized into columns, with names in the first column and dates in the second column.

8. The eighth part of the document is a series of paragraphs of text, written in a cursive script. The text is somewhat difficult to read due to the handwriting, but it appears to be a narrative or a report of some kind. The paragraphs are separated by lines of space, and the text is written in a consistent style throughout.

9. The ninth part of the document is a list of names and dates, similar to the first part. The names are written in a cursive script, and the dates are in a more formal, printed style. The list is organized into columns, with names in the first column and dates in the second column.

10. The tenth part of the document is a series of paragraphs of text, written in a cursive script. The text is somewhat difficult to read due to the handwriting, but it appears to be a narrative or a report of some kind. The paragraphs are separated by lines of space, and the text is written in a consistent style throughout.

20 Feb

clear at 7 am, fog later from S & W
8-9 am then clear. 12:02 - 60° outside,
a few cirrus, wispy fringe.

Mar 1 fog later till 11

2 Mar clear almost spring like!

3 Mar high cirrus cool all day

4 Mar overcast, cool

5 Mar light rain at night to 8 ± am
then overcast with a few holes.

6 Mar a few cirrus etc till 10 then clear.

7 Mar. clear 6 pm clear, fog at gate; 58°

9 Mar fog to 11 ±, then stratus-cirrus to 2 then
variable rough small cumuli, sun afternoon

10 Mar fog & heavy drizzle at 7:30 am. 11 am
still fog & 57° no sun till 5 pm broken clouds

11 Mar to Palo Alto, am., hot!

13 Mar back by 12:50 - clear, few cirrus

14 Mar clear

16 Mar a trace of rain last night, over-
cast in am seen in pm. 3:12 - 84

17 Mar clear all day with a few cirrus in am
Rolls of cumuli coming in at 4:09 - 86° in am

19 Mar clear (clouds last several days)

no waves in this am. - waves (upset)

yesterday. 1:38 since about noon,

small fluffy cumuli N to S, light breeze
& 60°

20 Mar clear all day

21 Mar medium shower 8-9:15 am then broken
clouds.

22 Mar almost clear at 7 am then clouds &

a shower 8:30-9, scattered big cumuli to

11, a light sprinkle then clear by noon &

on to 4 pm

Handwritten text in a South Asian script, likely Devanagari, covering the entire page. The text is written in a cursive style and appears to be a continuous narrative or a list of items. The page is numbered '1' in the top right corner.

christian
at

318

Journal

23 Mar.

overcast all day, some sun in p.m., cool wind & cold all day - 50's. A Fox Sq. has been feeding an N.W. elm samaras for an entire week. Gisal has a fruit & flower.

24 Mar. rough overcast till 1:30 when a light rain started till -

25 Mar. RAIN FALL = .32" at noon, but scattered clouds at dawn.

26 Mar. clear with all day 4:28 = 62°

27 Mar. fog to dawn clear all day 4:35 = 66°

28 Mar. fog to 9 am. slowly clearing up.

Fox Sq. DOR dawn street. 4:41 clear.

— dull day = 67° in sun, coolish day.

5:53 quiet day, a few pieces of fog (small) with N.W.

29 Mar. High rain clouds to noon then

low scattered clouds with rain - no rain.

30 Mar. clear

1 Apr. clear with increasing high cirrus, day warm at noon a haze. after 2 pm calm, general overcast, no sun at all, 75° outside.

2 Apr. clear at dawn with high cirrus clouds

4:11. 9 am complete overcast, 62°

4 Apr. back from T.A. hot there! clear to 2 pm then high cirrus to W. 3:34 = 81° in sun.

5 Apr. clear early thing 2:15, success at day noon, low cirrus at 3. 6:40. all clear.

6 pm sun, few falling stratus, 71° in sun.

6 Apr. a few clouds at 8, more at 9 & overcast at 10 am. getting darker, 57° cleared

about 5 to a few fluffy cumuli at 6 - 63°

7 Apr. clear at dawn; cirrus at noon;

overcast since 2 pm = 60° at 4:25

8 Apr. overcast, light misty rain by 9:30

4:49 light rain all day!

Handwritten text in a cursive script, likely a letter or document. The text is written in a dark ink on a light-colored paper. The handwriting is fluid and continuous, with many words and phrases that are difficult to decipher due to the cursive style. The text appears to be a personal communication, possibly a letter to a friend or family member. The overall tone of the writing is somewhat somber or reflective, with several lines that suggest a deep thought or a shared experience. The text is organized into several paragraphs, with some lines starting with capital letters, indicating the beginning of new sentences or sections. The handwriting is consistent throughout, suggesting it was written by a single person. The paper shows some signs of age, with slight discoloration and a few small stains. The overall impression is one of a well-preserved but clearly aged piece of correspondence.

9 apr.

RAINFALL .48" scattered cumuli
& breezy all day.

10 apr. clear, only occ. breezes, 12:42:62
3:25-67° in sun quiet day.

12 apr. fog to 10:45-57°

13 apr. hazy clear - after 10 am clear
11-59°

14 apr. clear to 8 (fog on hills), fog to 1
what appeared to be 2 sub-maths!
clear at 4, getting hazy.

16 apr. fog & breezes all day - dull!

17 apr. fog clear by noon 3 pm-65°

18 apr. fog all day

19 apr. clear

20 apr. fog ± to 10 then clear, cooler

21 apr. small patches of fog to 9 then clear
& windy with small cumuli to dark

22 apr. clear, puffery cumuli after 9:30
with cool NW wind.

23 apr. overcast, light rain at 9:53 am.
continuing rain, sometimes hard to 3.

5:43 overcast, windy no rain.

24 apr. cumulus all day with wind.

5:30 w. wind cleared clear, w. hazy.

(RAINFALL = .48")

25 apr. rain during night. Tan ¼ blue,
rest stratus/rimbus. 8:58 darker
then shower. (RAINFALL to 6 pm) = .62

29 apr. Fog to noon, then clear - brief
periods of sun (hazy, i.e.) overcast to 6 pm
with dull sun, stratus to 1st, fog to ahead

2 May clear except for few stratus. 4:25:73°
when it was getting hazy. at 12:34

4 May cloudy 90%+ overcast. brief shower

1. The first part of the paper is devoted to a general discussion of the problem. It is shown that the problem is of great importance in the theory of the structure of the atom. The second part of the paper is devoted to a detailed discussion of the problem. It is shown that the problem is of great importance in the theory of the structure of the atom.

2. The third part of the paper is devoted to a detailed discussion of the problem. It is shown that the problem is of great importance in the theory of the structure of the atom. The fourth part of the paper is devoted to a detailed discussion of the problem. It is shown that the problem is of great importance in the theory of the structure of the atom.

3. The fifth part of the paper is devoted to a detailed discussion of the problem. It is shown that the problem is of great importance in the theory of the structure of the atom. The sixth part of the paper is devoted to a detailed discussion of the problem. It is shown that the problem is of great importance in the theory of the structure of the atom.

4. The seventh part of the paper is devoted to a detailed discussion of the problem. It is shown that the problem is of great importance in the theory of the structure of the atom. The eighth part of the paper is devoted to a detailed discussion of the problem. It is shown that the problem is of great importance in the theory of the structure of the atom.

5. The ninth part of the paper is devoted to a detailed discussion of the problem. It is shown that the problem is of great importance in the theory of the structure of the atom. The tenth part of the paper is devoted to a detailed discussion of the problem. It is shown that the problem is of great importance in the theory of the structure of the atom.

4 May

after the shower stopped it got darker
to 2:45 a light rain started. 5:30 pm
light rain (so far RAIN = T)

5 May cumulo-nimbus overcast
to 10:20 when a light rain started

12:05 a respectable rain! - 53° outside
tapered off about 3pm RAINFALL to 4pm = .52"

5:30 dark clouds.

7 May rain all night. 7:45 am - RAIN = .92

cloud cover broke up 10± no more rain

4:35 huge cumuli to 5. occ. sun - 69° out.

17 May in Palo Alto on 15th light brief rain

at night then variable clouds, sep.

cumulus. Last night RAIN = .20, stopped
by 8 am.

2 June First Fox Sq. since oobut! It
was on landing, to Linden, I chased
it out - to cedar? that way.

10 July back from Palo Alto to 11:35 am -

broken fog all day (clear warm in PA)

2 Fox Sq. in today - both thin - juvs?

11 Sept 1:06 pm. clear, 65° first toward
over house from W.

15 Sept clear all day. K patio at 5:40 = 76°;
outside upstairs - 82° calm.

4 Oct. dark overcast at 6:30+. Heard
call in an owl like call: O-O-O-

O-O. a wad note high, mellow
rather loud, descending like wren-tit.
Lower clouds, light rain 9:30 to 10+
clouds from S, slight breezes.

5:20-5:45 violent storm thunder awakened

Handwritten text, likely bleed-through from the reverse side of the page. The text is mirrored and mostly illegible due to the quality of the scan and the nature of the bleed-through.

4 Oct.

(RAINFALL today - .34") 5:24 huge clouds to SW with blue overhead. So perhaps our fire season is over. Big thunderheads to W: planes low overhead to S & W. Violent rain & heavy showers & thunder/lightning till dark +

5 Oct (RAINFALL = .25 so .59" total)

clear at 8 then cumuli from N.

12:14 Monarch from NW to Pittos flower.

12:48 " about Pittos same area?

7 Oct clear 10:35 am. 1 Monarch over house to E - high.

10 Oct fog a.m.; haze clear pm breezy - 1:09 1 Monarch high NW of Pittos.

1:35 another Monarch over Pittos to E.

1:53 another " high to the E.

11 Oct 10:42 am clear (patchy fog to 8:30)

1 Monarch about Pittos. top of tree.

12 Oct clear, breezy & cool to 1 pm when first filmy cirrus appeared from S windy & 65° after noon clear - windy

13 Oct 12:16 pm clear cool slight breeze

1 Monarch glided down over house to NW.

17 Oct clear to noon then increasing overcast - feels cool!

24 Oct 11:14 clear 1 Monarch about yard

25 Oct 2:49 pm some cirrus; 1 Monarch to E

27 Oct overcast Trace of RAIN seen

night / not rain but condensation.

clear moon to 3 when fog returned.

storms - rain - snow in Washington &

Oregon - ? first real ones.

28 Fog

1. The first part of the paper is devoted to a general discussion of the problem of the origin of life. It is shown that the problem is one of the most important and interesting in the history of science. The author discusses the various theories of the origin of life, and shows that the most probable one is the theory of spontaneous generation.

2. The second part of the paper is devoted to a detailed discussion of the theory of spontaneous generation. It is shown that this theory is based on the fact that life is a complex of many different parts, and that these parts are all derived from a common ancestor. The author shows that this theory is supported by the facts of the history of life, and that it is the only one that can explain the origin of life.

3. The third part of the paper is devoted to a discussion of the evidence for the theory of spontaneous generation. It is shown that there is a great deal of evidence in support of this theory, and that it is the only one that can explain the origin of life. The author discusses the various experiments that have been conducted in support of this theory, and shows that they all support the theory of spontaneous generation.

4. The fourth part of the paper is devoted to a discussion of the objections to the theory of spontaneous generation. It is shown that there are many objections to this theory, but that they are all based on a misunderstanding of the facts of the history of life. The author shows that the theory of spontaneous generation is supported by the facts of the history of life, and that it is the only one that can explain the origin of life.

5. The fifth part of the paper is devoted to a discussion of the conclusions of the author. It is shown that the theory of spontaneous generation is the only one that can explain the origin of life, and that it is supported by the facts of the history of life. The author concludes that the theory of spontaneous generation is the correct one, and that it is the only one that can explain the origin of life.

Christman
1988

Experiment

E1

7 May, del Norte St, Berkeley, Alameda Co, CA
I put out at 1:17 pm the sharp-shinned
-waper Hawk model (aka SSCH)
in a vertical position only a touch
about, but scrub jay has been
active & aggressive this afternoon. It
is in "tree" outside the studio window.
1:37 pm scrub jay on line 35-40' from model
3+ House finches also no reaction. 1:40
dove into feed, another - there are 20' from
model. dove coming. they flew. cat is inside
2:14 Stellar jay in cedar 12' from model &
continued branch to branch on horizontal
clusters of needles - long neck/head &
crest up. on up. if it saw model no
reaction - no call. 2:31 dove on line 40'
from model, 30' from house. Flew to landing
to feed. 2:38/5 house finches on line & feeding
25' from SS-CH. 2:54 pm dove on line 6' from
house. 3:04 1 B.T., 2 doves, 6 HF in feeding.
3:27 scrub jay at feeding area briefly
saw me & flew 5 - no calls. 3:42 pm 2
doves loafing in cedar - 20-25' from model.
3:42 remained model. summary = no reactions

9 May 9:30 am put out same spot, except
it is higher - top most branches, nearly
vertical, raised in place, back to SW facing
almost NE toward house; so from cedar
aspect is mainly dorsal. 10:05 scrub jay in
top of NW elm for 3 minutes looking about; House
finch 20' away - no reaction. 10:58 am towhee
& several doves feeding, house finches singing.
1:41 pm got up desk & scared a scrub jay on landing
- didn't see or hear it come in, on line then
silently to SW.

Christman
1988

Experiment

E2

9 May, del Norte St., Berkeley, Alameda Co., Cal.

2:56 pm bright haze. Scrub jay squawked

— 2:58 it is high in cedar foraging in the horizontal branches — among the needles no doves, but active finches brought in 4 pm

15 May — see journal and Parus ref. = HOM

19 June — brought in prone dove; no reaction to it at all!

Put out in brush at end of landing the ot robin model one fleece leg to SE 20' from it — no reaction aot on line earlier this am.

Christman
1988

Feeding Porch

2

5 Mar. del Norte St., Berkeley, Alameda Co., CA
Anne gave me a 2 compartment
rectangular tube hanging feeder
from the Nature Co. - only one of 4
perches. I hung it by wire NW of
my desk in bedroom - 2' + from
side of house, 4' above desk in under
the overhang of roof. From pet store:
small black sunflower seeds & a
"parakeet treat" bunch of small
seeds, plus a lb. of rape - small dark
brown seeds. Sunflower in one side,
small stuff in other. Used worn
out watercolor brushes as perches.
Put out the 3rd of March so far
have seen no one come to it.
When I get back from Mondovino
I'll put out House Finch decay.
(the tube - with red plastic feeder on
top window NW is still empty -
this feeder has attracted House
Finches.) The same day I put
in a hook & wire for another
feeder by W window, upstairs &
hauled up a branch from dead
Rhododendron - will fix up
concrete base soon. = a built in
brush pile. 12:50 pm SEF House Finch
put H.F. model on upper perch on the sun-
flower side.

12 Mar 5:18 2 doves, one Br. towhee; separate
Gambel jay.

5 Apr New mix in 2 part new feeder. Small (Audubon
sunflower - small & black), plus Safeway mix with
1/4 thistle seeds = small, thin, long black.

Huistman
1988

Feeding pouch

3

5 Apr., del Norte St., Berkeley, Alameda Co., Calif.
This feeder came apart - the two
halves separated & during the wind
separated more spilling all but the
new bottom of the small seed side.
The sunflower seeds maybe too large
for most birds - hardly touched.
I put 4 bands (double) of strapping
tape around it.

11 Apr. so far I have seen no bird use
the new feeder!

27 May a week ago I put a strip of fat from
a chaw mein dinner out on landing. It's
still there - even the one Fox Sq. has not
~~been~~ taken it. It heats up during the day &
is greasy (& no doubt rancid).

Wistman
1987-88

~~Spotted~~ Mephitis

18 Aug. del Norte St, Berkeley, Alameda Co., CA
7:59 p.m. heavy fog cover, still light
to read. from bathroom window one
in grass & tree trimming foraging
into ground nose to ground.

29 Aug - see article ~~over~~ —

2 Sept. can hear almost every night in
bathroom patio / opossums are
also active at night.

30 Apr wake up at 7:31 am with very strong
smell of skunk in window. Strong in back too

War on Skunks

Editor — In response to your article on a bay couple's problem with skunks, here is our story.

One evening in Sausalito on a very stormy night our dog sniffed at the heat radiator several times. That was our signal that something was in the basement.

The next morning my husband went down to the basement with a flashlight (our house was on a hill) and searched.

Up in a cozy corner with all the insulation pulled off the pipes was an animal with a large white streak along its back.

After calling all the pest control companies, who refused to come to our aid, one man said he wouldn't want to shoot it with a dart gun because he might miss and the skunk would spray.

Our house was then on the market for sale and he said we wouldn't be able to live in it for six months. He

told us we might try floodlights because it was apparently building a nest to have its babies. They do not like the light.

Hopefully, we used a floodlight, table lamps, floor lamps, anything we could think of. My husband tiptoed cautiously to open the door and connected all the lights. He left the door open with all lights blaring and they were on all night (we wondered what the neighbors thought). The next morning he cautiously crept into the basement and the skunk was gone.

BERNICE ARCHIBALD
Danville

Christman

1990-91

fulgens agrifolia

8

25 Mar., ~~del Norte St.~~ Berkeley, Alameda Co. Cal.
noticed yesterday that the new shoots
- growth have grown 3 to 4' and
the first pendulous flower catkins
have appeared. Will the hand-tails
come in to eat them this year?

27 Mar. oak is now almost a uniform
bright light green.

30 Mar. The tender green of new leaves chang-
ing to shinny green. dead leaves hardly
noticeable. a few pendulous flower stalks.

3 Apr. Yesterday discovered "grass" or caterpillar
shit falling onto my work area in back
patio under oak & on car & steps in front
under the big oak.

11 Apr. (1) 2 small pale moths about oak -
are these oak moths? (2) Today had some
sights: first: House sparrows & starlings
foraging in oak, too, but not unusual,
then in p.m. a white-crowned sparrow
did heard it said oak moth caterpillars
are not eaten by moths.

1 Oct. for a week now both in front & in
back yards, under oaks, 1" green acorns
have been falling.

26 Feb 91. Noticed for first time new terminal
branch buds swelling on oak.

8 Mar. new tannish-ashre terminal leaf
buds over entire tree - most aimed
upwards.

10 Mar. rain; for first time this winter can see
dangling flower stems among new growth
on the oak. about 1/2 of tree + is now pale tan-
green from the new growth.

Christman
1990

ulmus americana.

11

15 Nov ~~del Norte St.~~ Berkeley, Alameda Co., Calif.
seems that only 2 elms up the st.
still have any yellow-tan leaves -
just on N side & 1 st S. side. Overall
only 5% leaves remaining. W
elm 95% bare.

3 Feb buds are appearing on some of the
elms - highest limbs are bare. Some
buds high in NW elm appear to be
opening & large in W elm. They are dark
brown.

5 Feb buds opening on lower limbs of NW
elm - tan-ash color.

11 Feb The elms are changing - there is even
more of the tan-ash, especially NW elm,
W elm & 1 across st. heavy buds. top
branches of NW elm bare of buds tho.

16 Feb Samaras seem to be fully out on
several of NW elms highest branches on
S side & E side. None of the other trees
are this advanced.

20 Feb Now NW elm from lower 5 limbs to
within 10' of top is a faint green patina.

25 Feb NW elm & branches of other elms
across & up st. are now green!

14 Mar as far as I can see from here the
elm farthest up the st. to W is not in samaras
or perhaps even in bud. Samaras falling ⁱⁿ wind

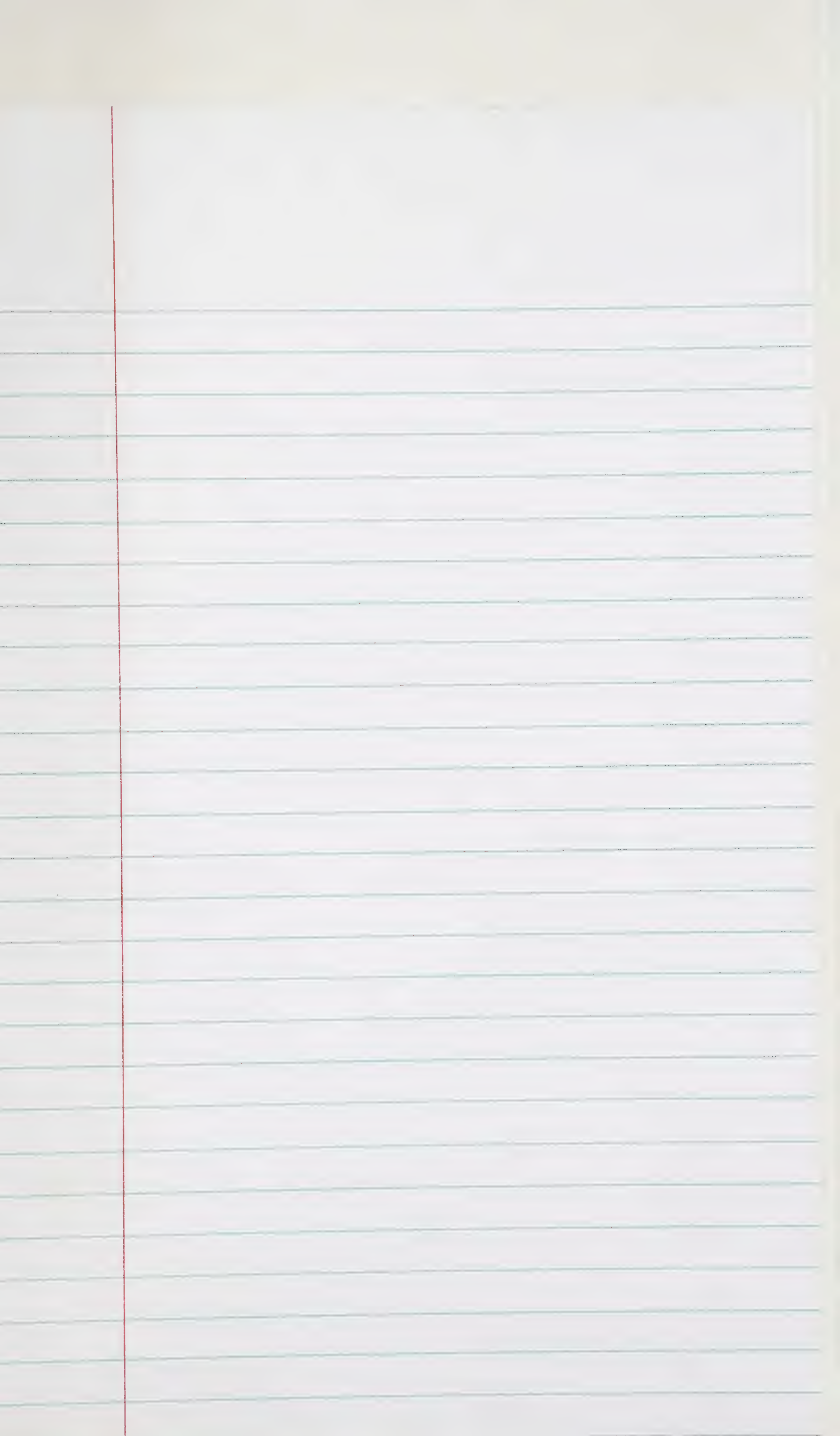
25 Mar. The samaras are gone from all elms in
view - and today the first leaves out on
NW elm - ends of branches on SE side & the
lowest & outer most part of canopy.

29 Mar. only about 6 or 8 elms on Hopkins st.
between Grove & Sutter are in samaras

[illegible]

The first thing I noticed when I stepped
 out of the car was the smell of
 the sea. It was a salty, sweet
 scent that I had never before. I
 had heard that the ocean was
 beautiful, but I had never
 experienced it. The waves were
 crashing against the shore, and
 the sun was shining brightly.
 I had heard that the ocean was
 beautiful, but I had never
 experienced it. The waves were
 crashing against the shore, and
 the sun was shining brightly.

The first thing I noticed when I stepped
 out of the car was the smell of
 the sea. It was a salty, sweet
 scent that I had never before.
 The sun was shining brightly, and
 the waves were crashing against the shore.
 I felt a sense of freedom and
 adventure. I was in a new place,
 and I was going to explore it.
 The beach was wide and sandy,
 and the water was clear and blue.
 I walked along the shore, feeling
 the sand between my toes and the
 breeze on my face. I was in
 luck. I had found a perfect spot
 to relax and enjoy the day.
 The sun was low in the sky,
 and the colors of the sunset were
 beautiful. I sat on the sand, watching
 the waves roll in. I was in luck.
 I had found a perfect spot to relax
 and enjoy the day. The sun was low
 in the sky, and the colors of the sunset
 were beautiful. I sat on the sand, watching
 the waves roll in. I was in luck. I
 had found a perfect spot to relax and
 enjoy the day.



Massachusetts

1887

